

GUI Graphical User Interface

Use this manual in combination with the operating guide displayed on the GUI screen.

GUI Menu Operation (☞ page 25) GUI Menu Map (☞ page 26) Language (☞ page 44) Remote Control Unit Operations (☞ page 78)

AV SURROUND RECEIVER

AVR-5308CI

Owner's Manual

□ SAFETY PRECAUTIONS



CAUTION:

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. **REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.**



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



T

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

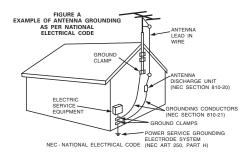
WARNING:

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

- before the product is operated
- 2. Retain Instructions The safety and operating instructions should be retained for future reference.
- 3. Heed Warnings - All warnings on the product and in the operating instructions should be adhered to.
- 4 Follow Instructions - All operating and use instructions should be followed.
- 5. Cleaning – Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners.
- 6. Attachments Do not use attachments not recommended by the product manufacturer as they may cause hazards.
- 7. Water and Moisture – Do not use this product near water – for example, near a bath tub, wash bowl, kitchen sink, or laundry tub; in a wet basement: or near a swimming pool; and the like.
- 8. Accessories – Do not place this product on an unstable cart, stand, tripod. bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should

follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.

- 9. A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.
- 10. Ventilation Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in or the manufacturer's instructions have been adhered to.
- 11. Power Sources This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.
- 12. Grounding or Polarization This product may be equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.



- 1. Read Instructions All the safety and operating instructions should be read 13. Power-Cord Protection Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.
 - 15. Outdoor Antenna Grounding If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Figure A.
 - 16. Lightning For added protection for this product during a lightning storm. or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.
 - Power Lines An outside antenna system should not be located in the 17. vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.
 - 18. Overloading Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.
 - 19 Object and Liquid Entry - Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.
 - 20. Servicing Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
 - installation such as a bookcase or rack unless proper ventilation is provided 21. Damage Requiring Service Unplug this product from the wall outlet and refer servicing to gualified service personnel under the following conditions:
 - a) When the power-supply cord or plug is damaged,
 - b) If liquid has been spilled, or objects have fallen into the product,
 - c) If the product has been exposed to rain or water.
 - d) If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation,
 - e) If the product has been dropped or damaged in any way, and
 - f) When the product exhibits a distinct change in performance this indicates a need for service.
 - 22. Replacement Parts When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.
 - 23. Safety Check Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.
 - 24. Wall or Ceiling Mounting The product should be mounted to a wall or ceiling only as recommended by the manufacturer.
 - Heat The product should be situated away from heat sources such as 25. radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.





FCC Information (For US customers)

1. COMPLIANCE INFORMATION

Product Name: AV Surround Receiver Model Number: AVR-5308CI

This product contains FCC ID: BV2- MPGBR052.

This product complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this product may not cause harmful interference, and (2) this product must accept any interference received, including interference that may cause undesired operation.

Denon Electronics (USA), LLC 100 Corporate Drive, Mahwah, NJ 07430-2041 Tel. 201-762-6500 (Main)

2. IMPORTANT NOTICE: DO NOT MODIFY THIS PRODUCT

This product, when installed as indicated in the instructions contained in this manual, meets FCC requirements. Modification not expressly approved by DENON may void your authority, granted by the FCC, to use the product.

3. CAUTION

- To comply with FCC RF exposure compliance requirement, separation distance of at least 20 cm must be maintained between the antenna of this product and all persons.
- This product and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter.

4. NOTE

This product has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This product generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this product does cause harmful interference to radio or television reception, which can be determined by turning the product OFF and ON, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the product into an outlet on a circuit different from that to which the receiver is connected.
- Consult the local retailer authorized to distribute this type of product or an experienced radio/TV technician for help.

IC Information (For Canadian customers)

1. PRODUCT

This product contains IC 6963A-MPGBR052.

This product complies with RSS-210 of Industry Canada. Operation is subject to the following two conditions: (1) this product may not cause harmful interference, and (2) this product must accept any interference received, including interference that may cause undesired operation.

This Class B digital apparatus complies with Canadian ICES-003.

APPAREIL

Cet appareil contiens IC 6963A- MPGBR052.

Cet appareil est conforme à la norme CNR-210 du Canada. L'utilisation de ce dispositif est autorisée seulement aux deux conditions suivantes : (1) il ne doit pas produire de brouillage, et (2) l'utilisateur du dispositif doit être prêt à accepter tout brouillage radioélectrique reçu, même si ce brouillage est susceptible de compromettre le fonctionnement du dispositif.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

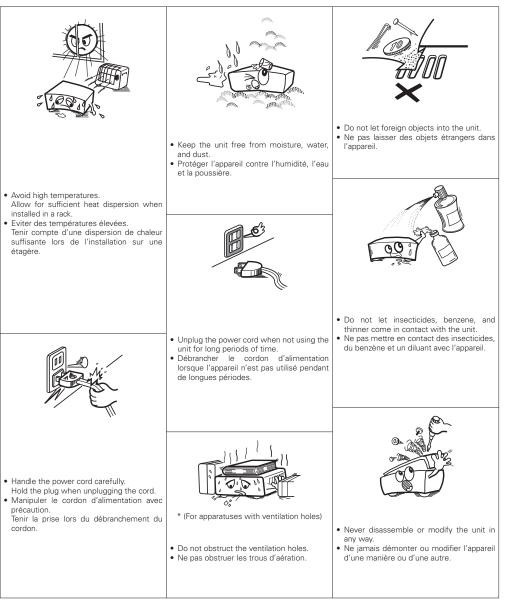
2. CAUTION

To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that permitted for successful communication.

ATTENTION

Afin de réduire le risque d'interférence aux autres utilisateurs, il faut choisir le type d'antenne et son gain de façon à ce que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne soit pas supérieure au niveau requis pour l'obtention d'une communication satisfaisante.

□ NOTE ON USE / OBSERVATIONS RELATIVES A L'UTILISATION



Contents

Getting Started
Accessories3
Cautions on Handling 3
Cautions on Installation3
About the Remote Control Unit
Inserting the Batteries
Operating Range of the Remote Control Unit4
Part Names and Functions4
Front Panel······4, 5
Display5
Rear Panel6
Remote Control Unit7

Connections
Preparations 8
Cables Used for Connections8
Video Conversion Function9
Speaker Installation 10
Speaker Layout
Speaker Connections
Connecting Equipment with HDMI connectors12
Connecting the Monitor 13
Connecting the Playback Components13
DVD Player
Record Player 14
CD Player
iPod [®] ·····14
TV/CABLE Tuner15
Satellite Receiver
Connecting the Recording Components 16
Digital Video Recorder
Video Cassette Recorder
CD Recorder / MD Recorder / Tape Deck
Connections to Other Devices
Components Equipped with a DENON LINK connector
Video Camera / Game Console
Component with Multi-channel Output connectors
External Power Amplifier
USB Port
Antenna terminals
Antenna terminais 21 Network Audio 22
Network Audio 22 Multi Zone 23
External Controller
Connecting the Power Cord 24
Once Connections are Completed 24
Once connections are completed

GUI Menu Operations
Example of the Display of the GUI Mark at a Title25
Example of Display of Default Values25
Examples of GUI Screen Displays 25
Example: Browse Menu (Top Menu)25
Example: Menus with Illustrations (Auto Setup)25
Cursor Position Display25
Operations 25
GUI Menu Map

Auto Setup	
Preparations	27
Auto Setup	27
1 Auto Setup	
Error Messages	
2 Option	
3 Parameter Check	

Manual Setup

inandal ootap
Speaker Setup
1 Speaker Configuration
2 Subwoofer Setup 30
3 Distance 31
4 Channel Level31
5 Crossover Frequency
6 THX Audio Setup32
7 Surround Speaker
HDMI Setup
1 Color Space 33
2 RGB Range
3 Auto Lip Sync
4 Audio
5 Monitor Out
6 HDMI Control
Audio Setup 34
1 EXT. IN Setup
2 2ch Direct/Stereo
3 Downmix Option
4 Auto Surround Mode34
5 Manual EQ
Network Setup 35
1 Network Setup
2 Other38
3 Network Information38
Zone Setup
1 ZONE2
2 ZONE3
3 OSD
Option Setup 39
1 Amp Assign 40
2 Volume Control40

3	Source Delete40
4	GUI40
5	Quick Select Name40
6	Trigger Out 141
7	Trigger Out 2······41
8	Trigger Out 341
9	Trigger Out 441
10	Transducer Setup·····41
11	Digital Out ······41
	Remote ID41
	2Way Remote41
	Dimmer42
	Setup Lock42
16	Maintenance Mode42
	Firmware Update42
	Add New Feature 42
Lang	guage

Source Select
Input Source Selection 43
Settings Related to Playing Input Sources44
1 Play44
2 Auto Preset
3 Preset Skip44
4 Preset Name44
5 Video
6 Input Mode
7 Rename46
8 Source Level46
9 Playback Mode (iPod)46
10 Assign46, 47
11 Playback Mode·····47
12 Still Picture
Antenna Aiming47

Surround Mode
HOME THX CINEMA
Surround Playback of 2-channel Sources48
Playing Multi-channel Sources (Dolby Digital, DTS, etc.)48
Standard Playback 48
Surround Playback of 2-channel Sources48
Playing Multi-channel Sources (Dolby Digital, DTS, etc.)49
Dolby Headphone49
DSP Simulation Playback49
Stereo Playback 49
Direct Playback50
Playback in the PURE DIRECT Mode50

Parameter
Audio50
1 Surround Parameters50 ~ 52
2 Tone
3 Room EQ
4 Dynamic EQ53
5 RESTORER
6 Night Mode
7 Audio Delay54
Picture Adjust54
1 Contrast54
2 Brightness 54
3 Chroma Level54
4 Hue54
5 DNR54
6 Enhancer54
7 Sharpness ······54

Information
Status
1 MAIN ZONE
2 ZONE2/3/4
Audio Input Signal
HDMI Information 55
1 Signal Information
2 Monitor155
3 Monitor2
Auto Surround Mode55
Quick Select55
Preset Station 55

Playback	
Preparations	
Turning the Power On	
Operations During Playback	
Playing Video and Audio Equipment	
Basic Operation	
Listening to FM/AM Broadcasts	
Basic Operation	
Presetting Radio Stations (Preset Memory)	
Listening to Preset Stations	
RDS (Radio Data System)	
RDS Search PTY Search	
TP Search	
RT (Radio Text)	
Listening to XM Satellite Radio Programs	
Basic Operation.	
Checking the XM Signal Strength and Radio ID	60
Searching Categories	
Accessing XM Radio Stations Directly	
Listening to HD Radio Stations	
Basic Operation	62
Selecting Audio Programs	62
Check the HD Radio Reception Information	
iPod [®] Playback	
Basic Operation	
Listening to Music ·····	
Viewing Still Pictures or Videos on the iPod	64
Playing Network Audio,	
USB Memory Devices or Rhapsody	
Basic Operation	
Listening to Internet Radio Playing Files Stored on a Computer	
Playing Files Stored on USB Memory Devices	
Operating the AVR-5308CI Using a Browser (Web control	
operating the Avir-bould bailing a browser (Web Colling	,

Other Operations and Functions
Other Operations 71
Playing Super Audio CD71
Recording on an External Device (REC OUT mode)71, 72
Convenient Functions73
HDMI Control Function73
Channel Level74
Fader Function74
Quick Select Function74
Personal Memory Plus Function75
Last Function Memory75
Backup Memory75
Resetting the Microprocessor75

Remote Control Unit Operations
Main Remote Control Unit76
Operating DENON Audio Components76
Presetting76
Operating Preset Components76 ~ 78
Setting the Remote ID79
Learning Function79
System Call Function80
Punch Through Function80
Setting the Time the Backlight Stays Lit
Adjusting the Backlight's Brightness81
Resetting the Main Remote Control Unit81
Sub Remote Control Unit Operations82, 83
Switching Zones84
Setting the Zone for Which the Sub Remote Control Unit is Used
(ZONE SELECT LOCK Mode)84
Setting the Remote ID
Resetting the Settings84

Amp Assign / Multi-Zone Connections and Operations	;
Multi-Zone Settings with the Amp Assign Function	85 ~ 88
Multi-Zone Settings and Operations	
Multi-Zone Operations	
Turning the Power On and Off	
Selecting the Input Source	
Adjusting the Volume	
Turning off the Sound Temporarily	90

Other Information 91 ~ 105
Troubleshooting
Specifications 110, 111
List of preset codes End of this manual

Getting Started

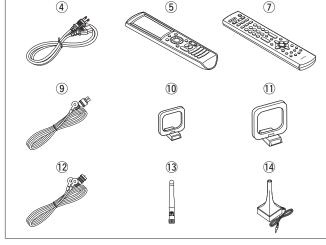
Thank you for purchasing this DENON product. To ensure proper operation, please read this owner's manual carefully before using the product.

After reading them, be sure to keep them for future reference.

Accessories

Check that the following parts are supplied with the product.

① Owner's manual1② Warranty (for North America model only)1③ Service station list1④ Power cord (Cord length: Approx. 5 ft /1.5 m)1⑤ Main remote control (RC-1067)1⑥ LR6/AA batteries (for RC-1067)2⑦ Sub remote control (RC-1070)1⑧ R03/AAA batteries (for RC-1070)2⑨ FM indoor antenna110 AM loop antenna (small, for AM broadcasts)111 AM loop antenna (large, for HD Radio broadcasts)113 Rod antenna for wireless LAN connection114 Setup microphone (Cord length: Approx. 25 ft / 7.6 m)1



Cautions on Handling

Before turning the power switch on

Check once again that all connections are correct and that there are no problems with the connection cables.

• Power is supplied to some of the circuitry even when the unit is set to the standby mode. When traveling or leaving home for long periods of time, be sure to unplug the power cord from the power outlet.

About condensation

If there is a major difference in temperature between the inside of the unit and the surroundings, condensation (dew) may form on the operating parts inside the unit, causing the unit not to operate properly.

If this happens, let the unit sit for an hour or two with the power turned off and wait until there is little difference in temperature before using the unit.

• Cautions on using mobile phones

Using a mobile phone near this unit may result in noise. If so, move the mobile phone away from this unit when it is in use.

Moving the unit

Turn off the power and unplug the power cord from the power outlet.

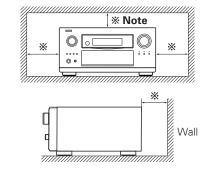
Next, disconnect the connection cables to other system units before moving the unit.

• Note that the illustrations in these instructions may differ from the actual unit for explanation purposes.

Cautions on Installation

Note:

For proper heat dispersal, do not install this unit in a confined space, such as a bookcase or similar enclosure.



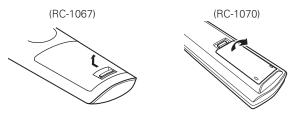
About the Remote Control Unit

In addition to the AVR-5308CI, the included main remote control unit (RC-1067) can also be used to operate the equipment listed below.

- ① DENON system components
- Non-DENON system components
- By setting the preset memory (🖙 page 76 ~ 78)
- By using the learn function (1277 page 79)

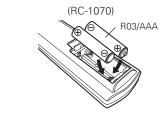
Inserting the Batteries

1 Lift the clasp and remove the rear lid.



② Load the two batteries properly as indicated by the marks in the battery compartment.

LR6/AA



③ Put the rear cover back on.

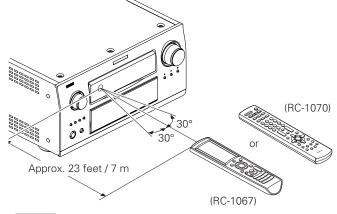
(RC-1067)

NOTE

- Replace the batteries with new ones if the set does not operate even when the remote control unit is operated close to the unit.
- The supplied batteries are only for verifying operation.
- When inserting the batteries, be sure to do so in the proper direction, following the " \oplus " and " Θ " marks in the battery compartment.
- To prevent damage or leakage of battery fluid:
- Do not use a new battery together with an old one.
- Do not use two different types of batteries.
- Do not attempt to charge dry batteries.
- Do not short-circuit, disassemble, heat or dispose of batteries in flames.
- If the battery fluid should leak, carefully wipe the fluid off the inside of the battery compartment and insert new batteries.
- Remove the batteries from the remote control unit if it will not be in use for long periods.
- When replacing the batteries, have the new batteries ready and insert them as quickly as possible.

Operating Range of the Remote Control Unit

Point the remote control unit at the remote sensor when operating it.



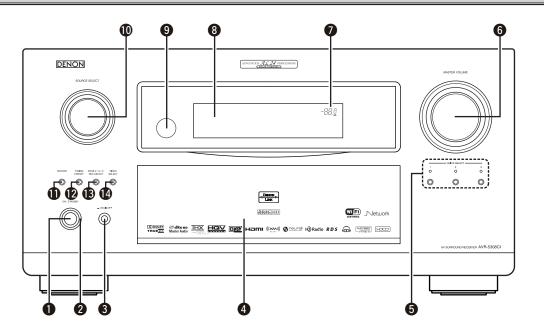
NOTE

The set may function improperly or the remote control unit may not operate if the remote control sensor is exposed to direct sunlight, strong artificial light from an inverter type fluorescent lamp or infrared light.

Part Names and Functions

For buttons not explained here, see the page indicated in parentheses ().

Front Panel



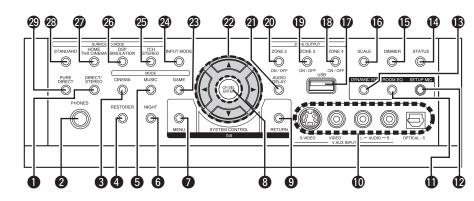
Master volume indicator

8 Display(5)	
Remote control sensor (4)	
O SOURCE SELECT knob (43)	
() SOURCE button (43)	
1 TUNING PRESET button (57)	
(71, 90) (71, 90)	
WIDEO SELECT button (45)	

Getting Started Connections Setup Playback Remote Control Multi-Zone Information

Troubleshooting

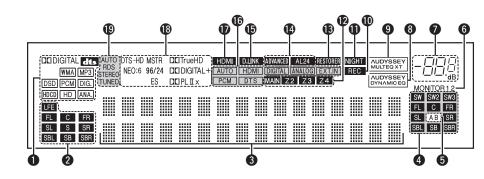
[With the door open]



UDIRECT/STEREO button
2 Headphones jack (PHONES)
3 CINEMA button
4 RESTORER button
MUSIC button (48)
6 NIGHT button
MENU button (28
8 CH SEL / ENTER button
RETURN button
WAUX INPUT connectors (18)
(53) ROOM EQ button
BETUP MIC jack
B DYNAMIC EQ button
STATUS button
DIMMER button

(b SCALE button (45)
(19) USB port
CONFF button (90)
CONE3 ON/OFF button (90)
ONCOMPACT STATES ON/OFF button (90)
AUDIO DELAY button
2 Cursor buttons (△▽< ▷)
3 GAME button (14, 48)
INPUT MODE button
7CH STEREO button (49)
BSP SIMULATION button (49)
HOME THX CINEMA button
STANDARD button (48)
PURE DIRECT button

Display



Input signal indicators

2 Input signal channel indicators These light when digital signals are input.

3 Information display

The input source name, surround mode, setting values and other information are displayed here.

4 Output signal channel indicators

5 Surround speaker indicators

These light according to the settings of the surround A and B speakers.

6 Monitor output indicators

These light according to the HDMI monitor output setting. When set to "Auto (Dual)", the indicators light according to the connection status.

Master volume indicator

3 AUDYSSEY DYNAMIC EQ indicator This lights when the Dynamic EQ is selected.

9 AUDYSSEY MULTEQ XT indicator This lights when the room equalizer is selected.

Recording output source indicator This lights when the REC OUT mode is selected.

NIGHT indicator

This lights when the night mode is selected.

Wulti zone indicators These light when the power for the respective zone is turned on.

B RESTORER indicator

This lights when the RESTORER mode is selected.

ADVANCED AL24 indicator

This lights when Advanced AL24 Processing is activated (1277 page 95).

D.LINK indicator

This lights when playing using DENON LINK connections.

Input mode indicators

D HDMI indicator

This lights when playing using HDMI connections.

Decoder indicators

These light when the respective decoders are operating.

Tuner reception mode indicators

These light according to the reception conditions when the input source is set to "TUNER" or "HD Radio".

• AUTO

This lights when in the auto tuning mode.

• RDS

These light when receiving RDS broadcasts.

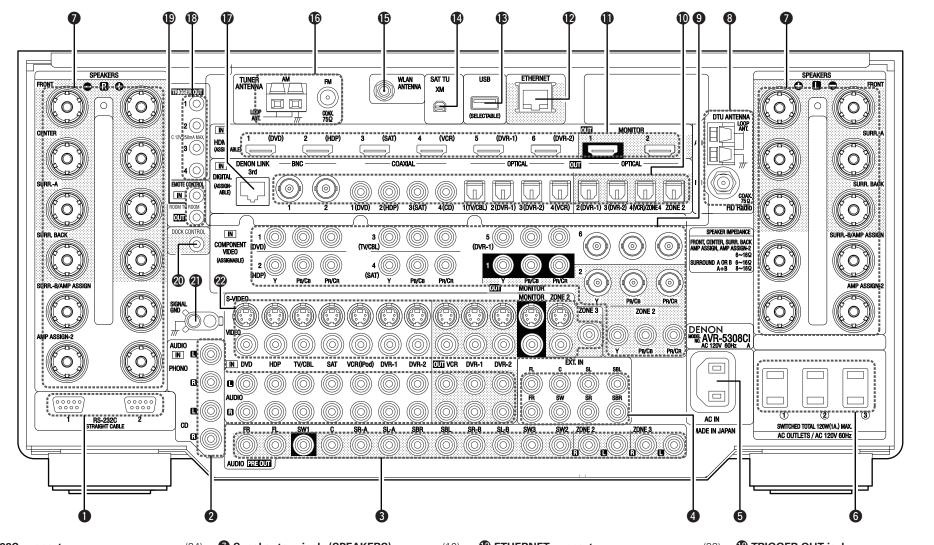
• STEREO

In the FM mode, this lights when receiving analog stereo broadcasts.

• TUNED

This lights when the broadcast is properly tuned in.

Rear Panel



Getting Started

Connections

Setup Playback

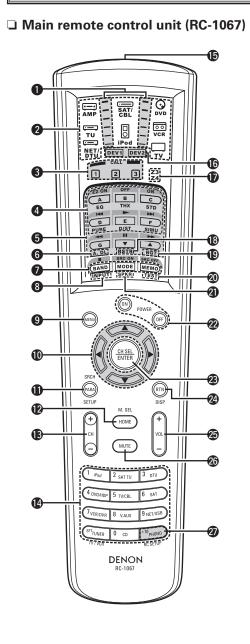
1 RS-232C connector
2 Analog audio connectors (AUDIO)
3 PRE OUT connectors
4 EXT. IN connectors (18)
3 AC inlet (AC IN)
6 AC OUTLETS

Speaker terminals (SPEAKERS)
HD Radio antenna terminals (DTU ANTENNA)
COMPONENT VIDEO connectors (13)
Digital audio connectors (OPTICAL / COAXIAL / BNC)
HDMI connectors (12)

(22) ETHERNET connector	(
(B) USB port	(
(2) XM connector (SAT TU) (20)	(
WLAN ANTENNA terminal	(
Image: FM/AM antenna terminals	(
(TUNER ANTENNA)	
DENON LINK connector	

B TRIGGER OUT jacks
REMOTE CONTROL jacks
2 DOCK CONTROL jack
SIGNAL GND terminal
WIDEO / S-VIDEO connectors (13)

Remote Control Unit

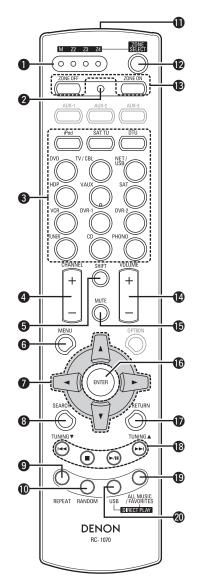


0	Signal transmission indicator (76)
2	Mode select buttons
3	Quick select / System call buttons (74, 80)
4	Surround mode buttons
6	System buttons(77, 78)
6	Audio delay button (A. DL)
0	Tuner system buttons
8	Input mode button (INPUT)
9	MENU button
D	Cursor buttons (△▽< ▷) (25)
Ð	Parameter / Search button
	(PARA / SRCH) (50, 58, 61, 64)
Ø	Monitor select (M. SEL) /
_	HOME button
-	Channel buttons (CH)······(57)
14	Input source select /
æ	Number buttons
_	Remote control signal transmitter
-	Device select indicators (DEV1 / DEV2) ··· (76)
U	ZONE3 / ZONE4 select indicators (Z3 / Z4)
ß	RESTORER button (RSTR)
	Night button (NGT)
-	Test tone button (TEST)
-	Surround speaker select button (SPKR) ···· (32)
_	POWER buttons
-	Channel select (CH SEL) /
9	ENTER button
24	Return button (RTN)(25)
-	Master volume control buttons (VOL) ····· (56)
_	Muting button (MUTE)
_	Main remote control unit setup button
	(RC SETUP)

The time for which the backlight stays on can be changed (P page 81 "Setting the Time the Backlight Stays Lit").

NOTE

The ZONE2 mode **QUICK SELECT (1 ~ 3), A. DL, RSTR, NGT, INPUT, SPKR, TEST** and surround mode buttons cannot be used. □ Sub remote control unit (RC-1070)



1 ZONE indicators
2 Advanced setup button
3 Input source select buttons (43)
4 CHANNEL buttons (57)
5 SHIFT button (57)
6 MENU button (25)
⑦ Cursor buttons (△▽⊲ ▷)
3 SEARCH button
9 REPEAT button
(64)
1 Remote control signal transmitter(4)
2 ZONE SELECT button (84)
Zone power on/off buttons (ZONE ON / ZONE OFF)
Master volume control buttons (VOLUME)
(56, 90) (MUTE)
() ENTER button (25)
(25) (25)
(5 7, 82, 83)
ALL MUSIC/FAVORITES (DIRECT PLAY) button
OUSB (DIRECT PLAY) button (82)

The AUX-1, AUX-2, AUX-3 and OPTION buttons cannot be used.

Getting Started

Connections

Setup

Playback

7

Connections

Connections for all compatible audio and video signal formats are described in these operating instructions. Please select the types of connections suited for the equipment you are connecting. With some types of connections, certain settings must be made on the AVR-5308CI. For details, refer to the instructions for the respective connection items below.

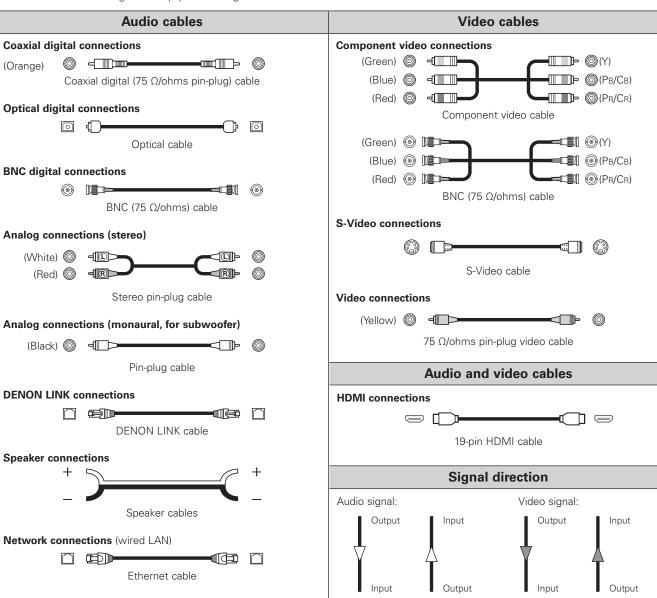
NOTE

- Do not plug in the power cord until all connections have been completed.
- When making connections, also refer to the operating instructions of the other components.
- Be sure to connect the left and right channels properly (left with left, right with right).
- Do not bundle power cords together with connection cables. Doing so can result in humming or noise.

Preparations

Cables Used for Connections

Select the cables according to the equipment being connected.



Getting Started

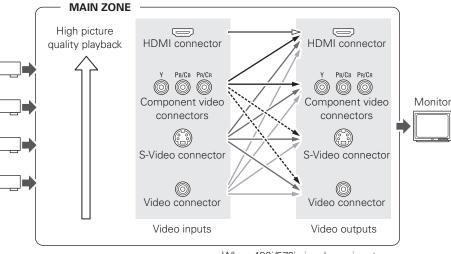
Video Conversion Function

- This function automatically converts various formats of video signals input to the AVR-5308Cl into the format used to output the video signals from the AVR-5308Cl to a monitor.
- The AVR-5308CI's video input/output circuitry is compatible with the following four types of video signals:

Digital video signals: HDMI

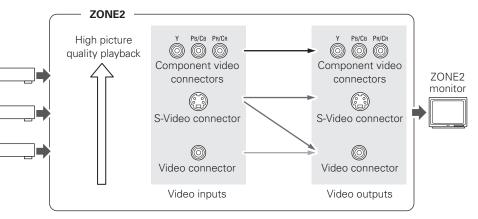
Analog video signals: Component video, S-Video and Video

[Flow of video signals inside the AVR-5308CI]

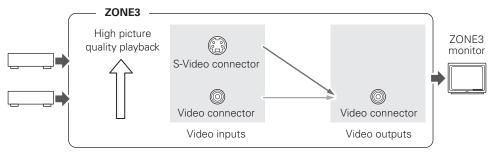


----: When 480i/576i signals are input

[Flow of video signals for ZONE2]



[Flow of video signals for ZONE3]



- When not using this function, connect a monitor output with the same type of connector as the video input connector.
- The resolution of the HDMI input-compatible monitor connected to the AVR-5308CI can be checked at GUI menu "Information" "HDMI Information" "Monitor1" or "Monitor2" (1297 page 55).

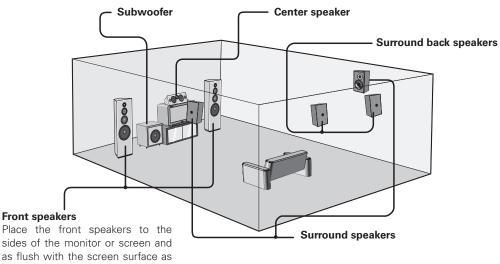
NOTE

- For optimum video performance, THX recommends that you set the conversion mode to "OFF" to use video signals pass through system without up conversion.
- **Example:** The video input signals from the component video can be enjoyed through the video output signals from the component video.
- HDMI signals cannot be converted into analog signals.
- 1080p component input video signals cannot be output to anything other than component video connectors.
- 480p/576p, 1080i and 720p component video input signals cannot be converted into S-Video or Video format.
- When using the component video output connectors for connection to the ZONE2 monitor, the ZONE2's on-screen display is not displayed.
- When a non-standard video signal from a game machine or some other source is input, the video conversion function might not operate.

Speaker Installation

Speaker Layout

The illustration below shows a basic example of installation of the amplifier combined with 8 speakers and a monitor.



possible.

Two surround back speakers are required to use the THX Ultra2 Cinema, THX Music mode and THX Games mode.

Set the surround back speakers so that the distance to the listening position is the same for both the left and right speakers. It is also recommended that the deviations of the distance from the listening position to L and R channel speakers (front left (FL) and front right (FR), surround left (SL) and surround right (SR), surround back left (SBL) and surround back right (SBR)) is less than 2 ft (60 cm).

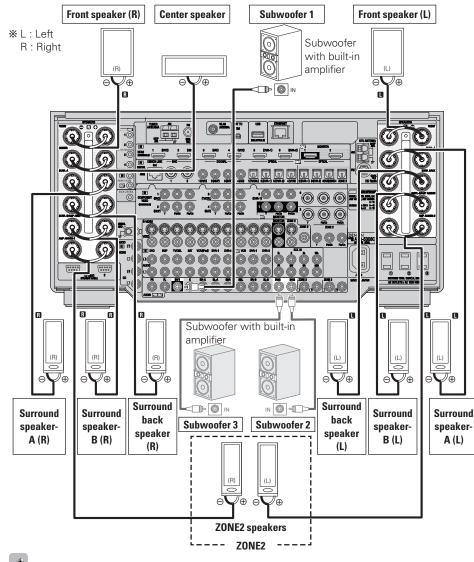
The table below shows a typical speaker configuration for the AVR-5308CI.

	FRONT		CENTER	SURR		SURR		SUR	ROUNI	D BACK	SUBWOOFER
	L	R		L	R	L	R	L	R	1 only	(*)
9.1-channels	0	0	0	0	0	0	0	0	0	-	0
7.1-channels	0	0	0	0	0	-	-	0	0	_	0
6.1-channels	0	0	0	0	0	-	-	-	-	0	0
5.1-channels	0	0	0	0	0	-	-	-	-	_	0
3.1-channels	0	0	0	-	-	-	-	-	-	_	0
2.1-channels	0	0	-	-	-	-	-	-	-	_	0
2-channels	0	0	-	-	-	-	-	-	-	-	-

* The AVR-5308CI can be connected to a maximum of 3 subwoofers.

Speaker Connections

Example: 9.3-channels and ZONE2 use



When using just one surround back speaker, connect it to the left channel (SBL).

NOTE

By default, the AVR-5308Cl's "Amp Assign" setting is set to "ZONE2", so sound is not output simply by connecting a speaker to the surround back terminal. To use as the surround back speaker for the MAIN ZONE, either turn the ZONE2 power off or change the "Amp Assign" setting (T page 85 ~ 88).

Getting Started

Connecting the Speaker Cables

Carefully check the left (L) and right (R) channels and + (red) and – (black) polarities on the speakers being connected to the AVR-5308CI, and be sure to interconnect the channels and polarities correctly.

- Peel off about 0.03 ft/10 mm of sheathing from the tip of the speaker cable, then either twist the core wire tightly or terminate it.
- **2** Turn the speaker terminal counterclockwise to loosen it.
- **3** Insert the speaker cable's core wire to the hilt into the speaker terminal.

4 Turn the speaker terminal clockwise to tighten it.



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When using a banana plug

Tighten the speaker terminal firmly before inserting the banana plug.

NOTE

- Use speakers with an impedance of 6 to 16 Ω /ohms. When using surround A and B speakers simultaneously, use speakers with an impedance of 8 to 16 Ω /ohms.
- Connect the speaker cables in such a way that they do not stick out of the speaker terminals. The protection circuit may be activated if the core wires touch the rear panel or if the + and – sides touch each other (27) "Protection circuit").
- Never touch the speaker terminals while the power supply is connected. Doing so could result in electric shock.

Protection circuit

If speakers with an impedance lower than specified (for example 4 Ω /ohms speakers) are used for an extended period of time with the volume turned up high, the temperature may rise, activating the protection circuit.

When the protection circuit is activated, the speaker output is shut off and the power indicator flashes red. If this happens, unplug the power cord, then check the speaker cable and input cable connections. If the set is extremely hot, wait for it to cool off and improve ventilation around it. Once this is done, plug the power cord back in and turn the set's power back on.

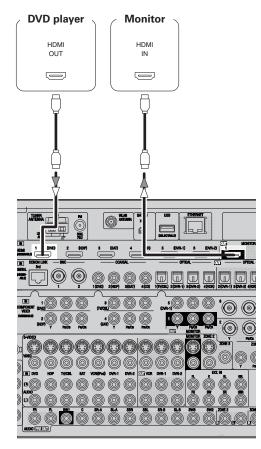
If the protection circuit is activated again even though there are no problems in the ventilation around the set nor in the connections, the set may be damaged. Turn the power off, then contact a DENON service center.

Getting Started



Connecting Equipment with HDMI connectors

With HDMI connections, the video and audio signals can be transferred with a single cable.



- By default, the HDMI audio signals are output from the speakers connected to the AVR-5308CI.
- To output the sound from the TV, make the settings at GUI menu "Manual Setup" – "HDMI Setup" – "Audio" – "TV" (127 page 33).

- - 30 and 36 bit Deep Color
 - xvYCC
 - Auto Lipsync Correction

Compatible audio format	Details	Discs (examples)
2-channel linear PCM	2ch 32-192 kHz 16/20/24 bits	CD, DVD-Video, DVD-Audio
Multi-channel linear PCM	8ch 32-192 kHz 16/20/24 bits	DVD-Audio
Dolby Digital, DTS	Bitstream	DVD-Video
DSD	2/5.1ch 2.8224 MHz 1 bit	SACD
Dolby Digital Plus, Dolby TrueHD, DTS-HD	Bitstream	HD DVD, Blu-ray Disc

Copyright protection system (HDCP)

In order to play the digital video and audio signals of a DVD-Video or DVD-Audio disc using HDMI/DVI connections, both the connected DVD player and monitor must be equipped for a copyright protection system called "HDCP" (High-bandwidth Digital Content Protection). HDCP is a copy protection technology consisting of data encoding and mutual identification of the devices.

The AVR-5308CI is HDCP-compatible. For details on the DVD player or monitor you are using, refer to its operating instructions.

When connecting with an HDMI/DVI converter cable (adapter)

- HDMI video signals are theoretically compatible with the DVI format.
- When connecting to a monitor, etc., equipped with a DVI-D connector, connection is possible using an HDMI/DVI converter cable, but depending on the combination of components in some cases the video signals will not be output.
- When connecting using an HDMI/DVI converter adapter, the video signals may not be output properly due to poor connections with the connected cable, etc.

NOTE

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- Use a CPPM-compatible DVD player to play DVD-Audio discs that are copyright-protected by CPPM.
- The audio signals output from the HDMI connector (sampling frequency, bit rate, etc.) may be restricted by the connected device.
- Video signals are not output properly when using devices that are not HDCP-compatible.
- Video signals are not output if the input video signals do not match the monitor's resolution. In this case, switch the DVD player's resolution to a resolution with which the monitor is compatible.
- If the GUI menu "Manual Setup" "HDMI Setup" "Audio" setting (P page 33) is set to "Amp", the sound may be interrupted when the monitor's power is turned off.
- Use a cable on which the HDMI logo is indicated (a certified HDMI product) for connection to the HDMI connector. Normal playback may not be possible when using a cable other than one on which the HDMI logo is indicated (a non-HDMI-certified product).
- If the monitor or DVD player does not support Deep Color, Deep Color signal transfer is not possible.
- If the monitor or DVD player does not support xvYCC, xvYCC signal transfer is not possible.
- If the monitor does not support "Auto Lipsync Correction" function, this function will not work.
- The AVR-5308CI is compatible with the HDMI's CEC (Consumer Electronics Control) function. Please note the following.
- It may not work depending on the device it is connected to and its setup.
- It does not operate with televisions or players that are not compatible with HDMI's CEC.
- When the AVR-5308Cl and DVD player are connected using an HDMI cable, also connect the AVR-5308Cl and monitor using an HDMI cable.
- If the connected monitor or DVD player only has a DVI-D connector, use an HDMI/DVI converter cable. When using a DVI cable, no audio signals are transmitted.
- Use a Deep Color compatible cable for connection to Deep Color compatible devices.

Connecting the Monitor

- Connect the cables to be used (127 page 9 "Video Conversion Function").
- With HDMI connections, the video and audio signals can be transferred with a single cable.
- To output the audio signals to the monitor with HDMI connections, set GUI menu "Manual Setup" "HDMI Setup" "Audio" to "TV" (127) page 33).
 - Monitor _ VIDEO COMPONENT VIDEO VIDEO S VIDEO HDMI IN IN IN IN Рв PR 000 TUNER w -0 9 0 o' 0 AC IN

NOTE

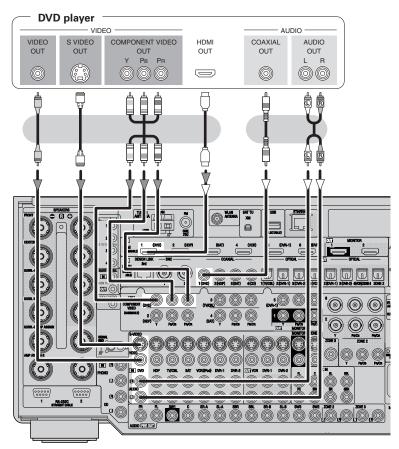
- The component video connectors may be indicated differently on your monitor. For details, see the monitor's operating instructions.
- The audio signals output from the HDMI connectors are only the HDMI input signals.

Connecting the Playback Components

Carefully check the left (L) and right (R) channels and the inputs and outputs, and be sure to interconnect correctly.

DVD Player

- Connect the cables to be used.
- With HDMI connections, the video and audio signals can be transferred with a single cable.



- Connect an HDP (High-Definition Player) in the same way.
- When using an optical cable or a BNC cable for the digital audio connection, make the settings at GUI menu "Source Select" "DVD" "Assign" "Digital" (127) page 46).
- When using a BNC cable for the component video connection, make the settings at GUI menu "Source Select" "DVD" "Assign" "Component" (@ page 47).

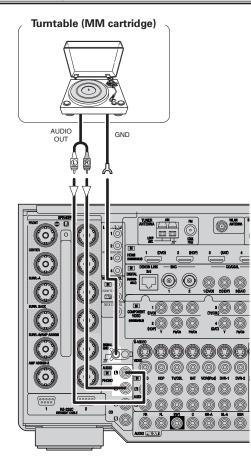
Getting Started

Connections

Setup

Playback

Record Player



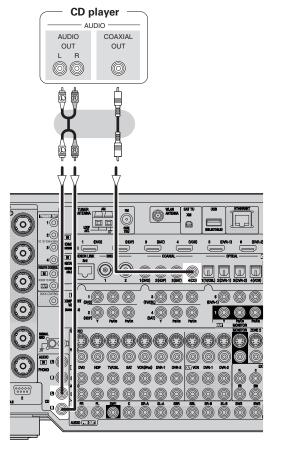
- When connecting a record player with an MC cartridge, use a commercially available MC head amplifier or a step-up transformer.
- Induction humming (a booming sound) may be produced from the speakers if the volume is raised with no record player connected.
- With some record players, noise may be generated when the ground wire is connected. If so, disconnect the ground wire.

NOTE

The AVR-5308CI's SIGNAL GND terminal is meant to reduce noise when a record player is connected. This is not a safety ground terminal.

CD Player

Connect the cables to be used.

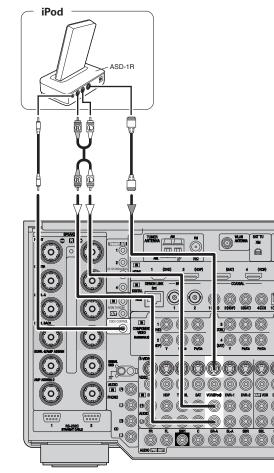


When using an optical cable or a BNC cable for the digital audio connection, make the settings at GUI menu "Source Select" – "CD" – "Assign" – "Digital" (127) page 46).

iPod®

Use a DENON Control Dock for iPod (ASD-1R, sold separately) to connect the iPod to the AVR-5308CI. For instructions on the Control Dock for iPod settings, refer to the Control Dock for iPod's operating instructions.

Example :



6

- With the default settings, the iPod can be used connected to the VCR (iPod) connector.
- To assign the iPod to a connector other than VCR (iPod), make the settings at GUI menu "Source Select" "(input source to which iPod dock assigned)" "Assign" "iPod dock" (127) page 47).

Troubleshooting

TV/CABLE Tuner

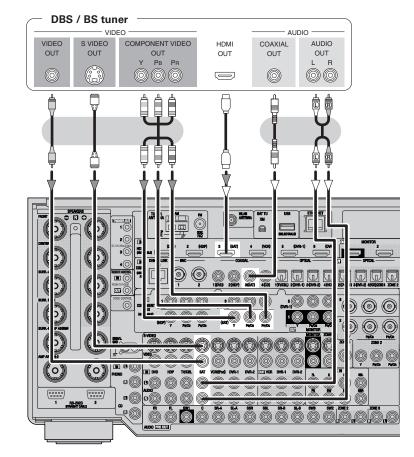
Connect the cables to be used.

TV tuner VIDEO AUDIO VIDEO S VIDEO COMPONENT VIDEO OPTICAL AUDIO OUT OUT OUT OUT OUT Y PB PR L R 0 00 0 f ROW SATT XM WLAN Antenna 0 0 0 1 **_**____ ारात 10 回 e 20 $\bigcirc \bigcirc$ \bigcirc 0 ႞၀႞ 1 AUDIO ESTECUT

- When using a coaxial digital cable or a BNC cable for the digital audio connection, make the settings at GUI menu "Source Select" – "TV/CBL" – "Assign" – "Digital" (1) page 46).
- When using a BNC cable for the component video connection, make the settings at GUI menu "Source Select" "TV/CBL" "Assign" "Component" (127 page 47).

Satellite Receiver

Connect the cables to be used.



- When using an optical cable or a BNC cable for the digital audio connection, make the settings at GUI menu "Source Select" "SAT" "Assign" "Digital" (P page 46).
- When using a BNC cable for the component video connection, make the settings at GUI menu "Source Select" "SAT" "Assign" "Component" (127) page 47).

Getting Started

Connections

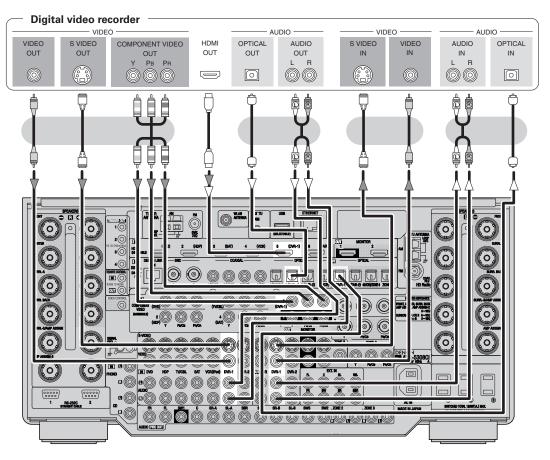
15

Connecting the Recording Components

Carefully check the left (L) and right (R) channels and the inputs and outputs, and be sure to interconnect correctly.

Digital Video Recorder

Connect the cables to be used.



- Make analog connections if you wish to record analog audio signals.
- When recording to a digital video recorder, it is necessary that the type of cable used with the playback source equipment be the same type that is connected to the AVR-5308CI DVR-1 OUT connector.
 Example: TV IN → S-Video cable : DVR-1 OUT → S-Video cable
 - TV IN \rightarrow Video cable : DVR-1 OUT \rightarrow Video cable
- Connect a DVR-2 in the same way.
- When using a component video cable or a BNC cable for the component video connection, make the settings at GUI menu "Source Select" "DVR-1" or "DVR-2" "Assign" "Component" (C page 47).

NOTE

- Do not connect the output of the component connected to the AVR-5308Cl's OPTICAL2 output connector to any input connector other than OPTICAL2.
- Do not connect the output of the component connected to the AVR-5308Cl's OPTICAL3 output connector to any input connector other than OPTICAL3.

Getting Started

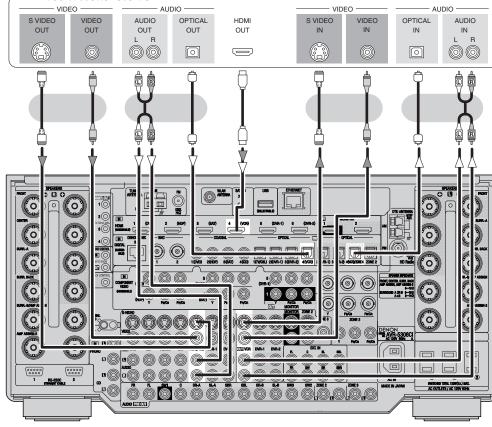
Connections

Setup

Video Cassette Recorder

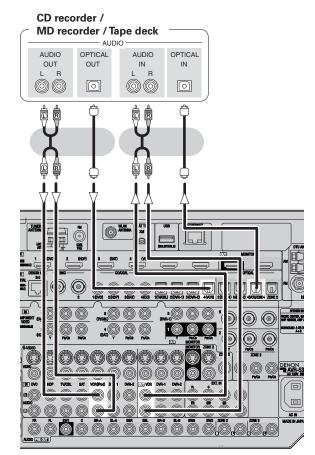
Connect the cables to be used.

Video cassette recorder



CD Recorder / MD Recorder / Tape Deck

Make analog connections if you wish to record analog audio signals, or digital connections if you wish to record digital audio signals, depending on the types of connectors on the components being used.



• When recording to a VCR, it is necessary that the type of cable used with the playback source equipment be the same type that is connected to the AVR-5308CI VCR OUT connector.

Example: TV IN \rightarrow S-Video cable : VCR OUT \rightarrow S-Video cable

TV IN \rightarrow Video cable : VCR OUT \rightarrow Video cable

• When using a component video cable or a BNC cable for the video connection, make the settings at GUI menu "Source Select" – "VCR" – "Assign" – "Component" (1977) page 47).

NOTE

Do not connect the output of the component connected to the AVR-5308CI's OPTICAL4 output connector to any input connector other than OPTICAL4.



Do not connect the output of the component connected to the AVR-5308Cl's OPTICAL4 output connector to any input connector other than OPTICAL4.

Getting Started

Connections

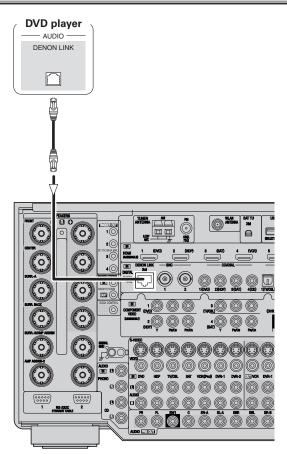
Setup

Connections to Other Devices

Carefully check the left (L) and right (R) channels and the inputs and outputs, and be sure to interconnect correctly.

Components Equipped with a DENON LINK connector

Multi-channel playback is possible with DVD-Audio discs, Super Audio CD, etc.



To use with DENON LINK connections, make the settings at GUI menu

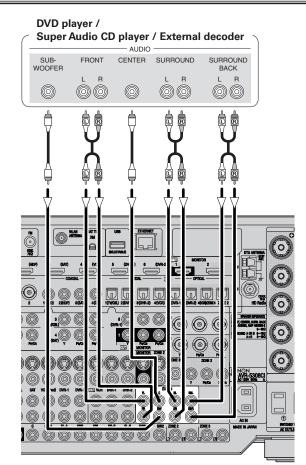
"Source Select" - "(input source)" - "Assign" - "Digital" - "DENON

LINK" (12 page 46).

Video camera / Game console VIDEO -S VIDEO VIDEO AUDIO OPTICAL OUT OUT OUT OUT L R $\bigcirc \bigcirc$ \bigcirc wanced $\mathcal{AL2}$ STATUS O O 0 0 0 0 0

Video Camera / Game Console

Component with Multi-channel Output connectors



Í

- To play the analog input signals input to the EXT. IN connectors, press the INPUT MODE button on the main unit or INPUT button on the main remote control unit and select "EXT. IN" or make the settings at GUI menu "Source Select" - "(input source)" - "Input Mode" – "Input Mode" – "EXT. IN" (B page 45).
- The video signal can be connected in the same way as a DVD player (🖙 page 13).
- To play copyright-protected discs, connect the AVR-5308CI's EXT. IN connector with the DVD player's analog multi-channel output connector.

Getting Started

Connections

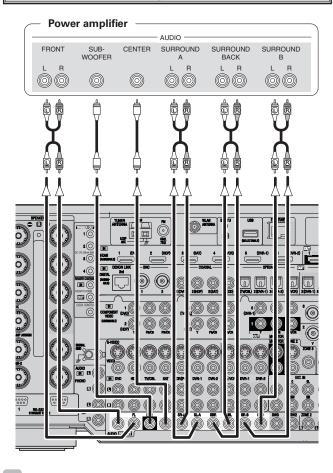
Setup Playback

Remote Control

Multi-Zone Information

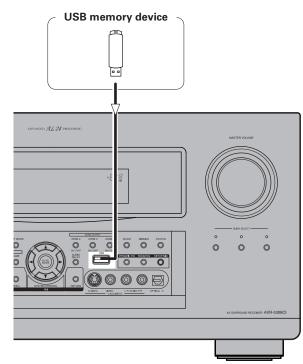
Troubleshooting

External Power Amplifier

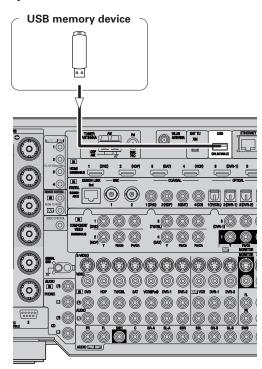


USB Port

Front panel



□ Rear panel



When using just one surround back speaker, connect it to the left channel (SBL).

• To change the port to be used, see "USB Select" on page 47.

• For instructions on playing the files on a USB memory device, see page 67, 68.

NOTE

- Set to the USB port you want to use.
- The AVR-5308CI is equipped with two USB ports, one each on the front and rear panels. It is not possible to use the set with USB memory devices connected to both the ports at the same time. Select the USB port you want to use at the GUI menu "Source Select" "NET/USB" "Playback Mode" "USB Select".
- Do not use the extension cable for connecting the USB memory deveice to the AVR-5308Cl's USB port. Use of the extension cable may cause harmful interference.

• In the initial status, USB memory devices can be used by connecting them to the USB port on the front panel.

Getting Started

Connections

Setup

Playback

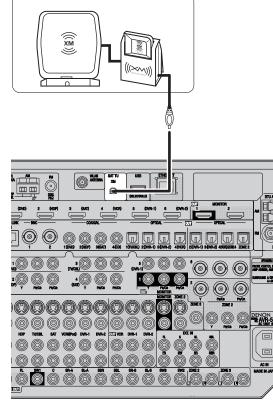
XM connector

- The AVR-5308CI is an XM Ready[®] receiver. You can receive XM[®] Satellite Radio by connecting to the XM Mini-Tuner and Home Dock (includes home antenna, sold separately) and subscribing to the XM service.
- Plug the XM Mini-Tuner and Home Dock into the XM connector on the rear panel.
- Position the Home Dock antenna near a south-facing window to receive the best signal.

For details, see "Listening to XM Satellite Radio Programs" (@ page 60, 61).

When making connections, also refer to the operating instructions of the XM Mini-Tuner and Home Dock.

XM Mini-Tuner and Home Dock



NOTE

Keep the power cord unplugged until the XM Mini-Tuner and Home Dock connection have been completed.

- The XM name and related logo are registered trademarks of XM Satellite Radio Inc. All rights reserved.
- XM Ready is a registered trademark of XM Satellite Radio Inc. All rights reserved.

Antenna terminals

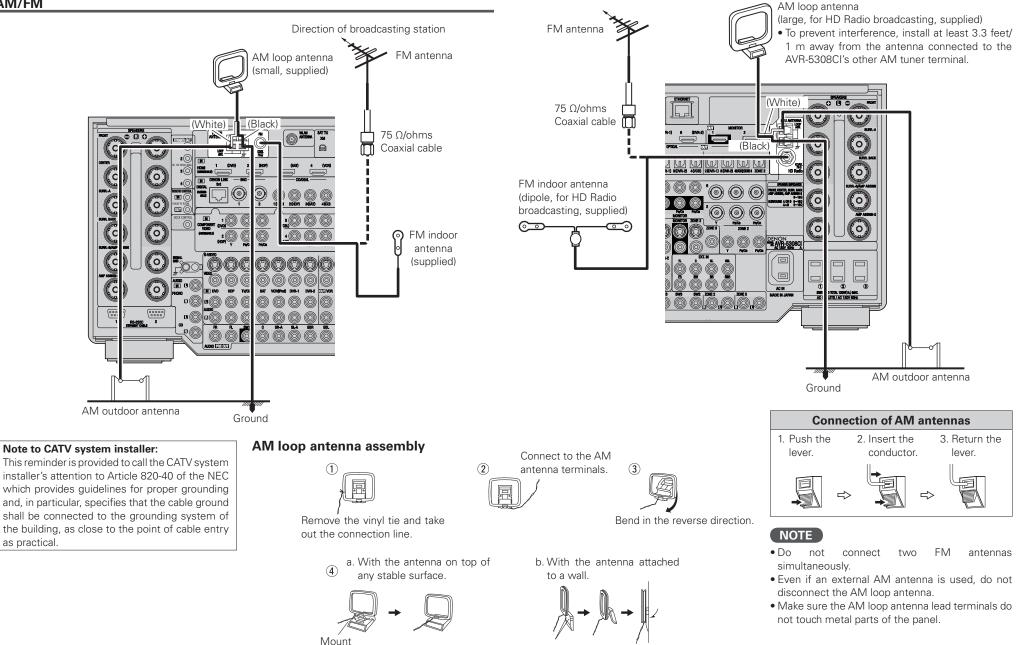
An F-type FM antenna cable plug can be connected directly.

AM/FM

HD Radio[™] broadcast

HD Radio broadcast is a service that is only available within the United States.

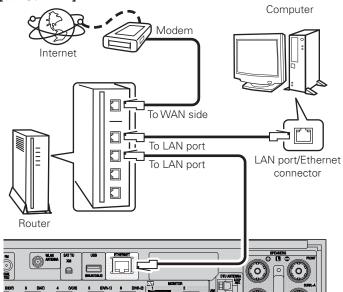
Direction of broadcasting station



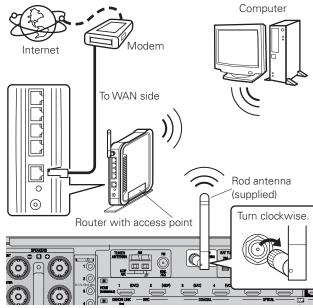
Getting Started

Network Audio

[Wired LAN]



[Wireless LAN]



Required system

□ Broadband Internet connection

A broadband line connection to the Internet is required in order to use the AVR-5308CI's Internet radio function and firmware update.

Modem

This is a device that is connected to the broadband line to communicate with the Internet. Some are integrated with the router.

Router

- When using the AVR-5308CI, we recommend you use a router equipped with the following functions:
- Built-in DHCP (Dynamic Host Configuration Protocol) server This function automatically assigns IP addresses on the LAN.
 Built-in 100BASE-TX switch

When connecting multiple devices, we recommend a switching hub with a speed of 100 Mbps or greater.

• When using with a wireless LAN, prepare a broadband router with built-in access point.

Ethernet cable (CAT-5 or greater recommended) Use for wired LAN.

- The AVR-5308CI does not come with an Ethernet cable.
- Some flat type Ethernet cables are easily affected by noise. We recommend using a normal type cable.
- If the sound is broken in an environment in which there is much power supply noise from electric products or in a noisy network environment, use a shielded type Ethernet cable.

Computer

A computer with the following specifications is required to use a music server:

- OS
- Windows® XP Service Pack2, Windows Vista
- Software (Prepare one of the following.)
- .NET Framework 1.1 and Windows Media Connect (Windows XP)
- · Windows Media Player ver.11
- $\cdot\,$ DLNA-compatible server software
- Internet browser

Microsoft Internet Explorer 5.01 or later

- LAN port
- 300 MB or more free disk space
- **%** Free disk space is required to store music and video files. The following sizes are approximate.

Format	Bit rate	Per minute	Per hour
	128 kbps	Approx. 1MB	Approx. 60 MB
MP3 / WMA	192 kbps	Approx. 1.5 MB	Approx. 90 MB
MPEG-4 AAC	256 kbps	Approx. 2 MB	Approx. 120 MB
	392 kbps	Approx. 3 MB	Approx. 180 MB
WAV (LPCM)	1400 kbps	Approx. 10 MB	Approx.600MB
FLAC	1080 kbps	Approx. 7.7 MB	Approx. 464 MB

For connections to the Internet, contact an ISP (Internet Service Provider) or a computer shop.

NOTE

- A contract with an ISP is required to connect to the Internet. No additional contract is needed if you already have a broadband connection to the Internet.
- The types of routers that can be used depend on the ISP. Contact an ISP or a computer shop for details.
- Depending on the server, video files may be displayed, but they cannot be played on the AVR-5308Cl.

Others

- If you have an Internet provider contract for a line on which network settings are made manually, make the settings at GUI menu "Manual Setup" – "Network Setup" (27) page 35 ~ 38).
- With the AVR-5308CI, it is possible to use the DHCP and Auto IP functions to make the network settings automatically.
- When using a broadband router (DHCP function), the AVR-5308CI sets the IP address, etc., automatically.
- When using the AVR-5308Cl connected to a network with no DHCP function, make the settings for the IP address, etc., at GUI menu "Manual Setup" "Network Setup" (127) page 35 ~ 38).
- The AVR-5308Cl is not compatible with PPPoE. A PPPoE-compatible router is required if you have a contract for a line of the type with which the PPPoE is set.
- Depending on the ISP with which you have your contract, it may be necessary to make proxy server settings to use the Internet radio function. If you made proxy server settings on the computer to connect to the Internet, make the proxy server settings on the AVR-5308Cl in the same way.

Remote Control Multi-Zone Information Troubleshooting

Multi Zone

ZONE2 or ZONE3 Pre-out Connections

- If another power amplifier or pre-main (integrated) amplifier is connected, the ZONE2 or ZONE3 pre-out (variable or fixed level) connectors can be used to play a different program source in ZONE2 or ZONE3 the same time (Ppage 85 ~ 90).
- When using a component video cable to connect the AVR-5308Cl and input device, connect the ZONE2 monitor output to the component video connectors. When using an S-Video cable, connect the cable to the S-Video or the video connectors. When using a video cable, connect the cable to the video connectors.

NOTE

- For the audio output, use high quality pin-plug cords so that no induction humming or noise is produced. • For instructions on installing and operating separately sold devices, refer to the respective devices' operating instructions.
- To conduct multi-zone playback, see "Amp Assign / Multi-Zone Connections and Operations" (127 page 85 ~ 90).

ZONE2 or ZONE4 Optical Connections

The AVR-5308Cl is equipped with Optical output connectors for ZONE2 and ZONE4. If a bit-stream amp is rigged-up, these zones can also be used to enjoy home theater.

AUDIO

OPTICAL

IN

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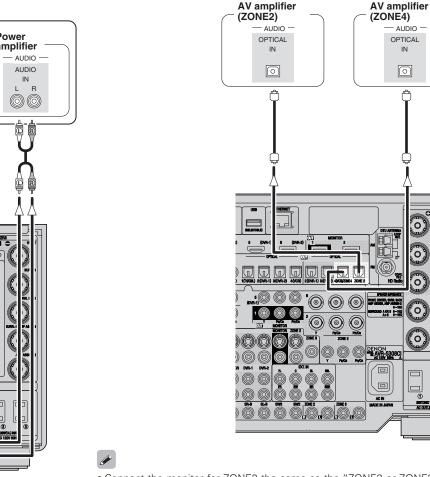
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2

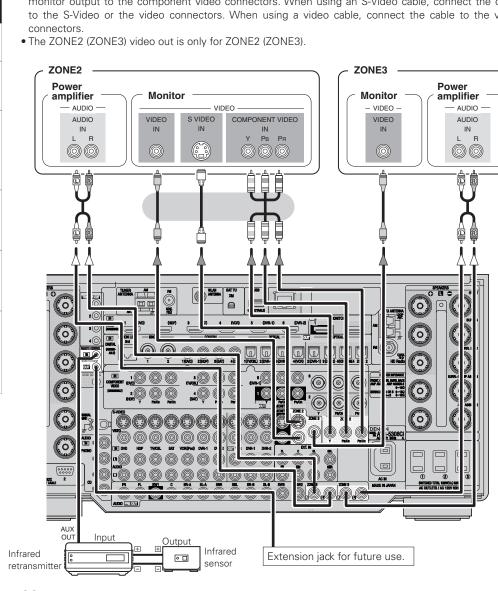
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Ð AC OUTLETS / AC 120V (1A) MAX

AC IN



- Connect the monitor for ZONE2 the same as the "ZONE2 or ZONE3 Pre-out Connectors". (FF See left column).
- If the signal inputted to ZONE2 is analog, change to PCM(2-channel) signal, and output it from ZONE2 optical output connectors.



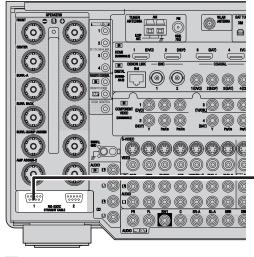
Getting Started

Connections

Setup

Playback

External Controller



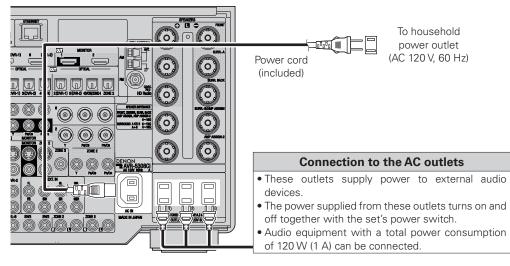
RS-232C connector

This connector is used for an external controller.

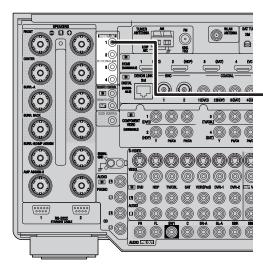
- If you wish to control the AVR-5308CI from an external controller using the RS-232C connector, perform the operation below beforehand.
- ① Turn on the AVR-5308CI's power.
- (2) Turn off the AVR-5308CI's power from the external controller.
- ③ Check that the AVR-5308CI is in the standby mode.

Connecting the Power Cord

Wait until all connections have been completed before connecting the power cord.



- When using in combination with an RF Remote Controller (RC-7000CI, sold separately) and RF Remote Receiver (RC-7001RCI, sold separately) two-way communication with an RF Remote Controller is possible. The AVR-5308CI's status information as well as iPod and Internet audio music files can be browsed watching the RF Remote Controller's display. For details, refer to the operating instructions of the respective devices.
- When used in combination with an RF Remote Controller and RF Remote Receiver, make the settings at GUI menu "Manual Setup" "Option Setup" "2Way Remote" "Used" (127) page 41).
- When using the 2-way remote control unit, connect to the Port 1 RS-232C connector.
- If GUI menu "Manual Setup" "Option Setup" "2Way Remote" is set to "Used", you cannot use port 1 of the RS-232C connector for the external controller.



Trigger output jacks

The power of an external device equipped with a trigger input jack can be turned on and off in association with operations on the AVR-5308CI.
For details, see GUI menu "Manual Setup" – "Option Setup" – "Trigger Out 1", "Trigger Out 2", "Trigger Out 3" or "Trigger Out 4" (CP page 41).
Output level: 250 mA/12 V
Check the trigger input conditions of the connected device.

NOTE

- Insert the AC plugs securely. Incomplete connections could cause noise.
- Only use the AC outlets to plug in audio devices. Do not use them as power supplies for hairdryers or anything other than audio equipment.

Once Connections are Completed

Turning the Power On (page 56)

Getting Started

Getting Started Connections Setup Playback **Remote Control** Multi-Zone Information Troubleshooting

GUI Menu Operations

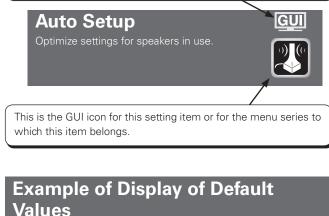
With the AVR-5308CI, settings and operations for most functions can be performed by operating while looking at the GUI menus displayed on the monitor screen.

The GUI cannot be superimposed when xvYCC signals and component 1080p signal, computer's resolution (e.g.VGA) are input.

Example of the Display of the GUI Mark at a Title

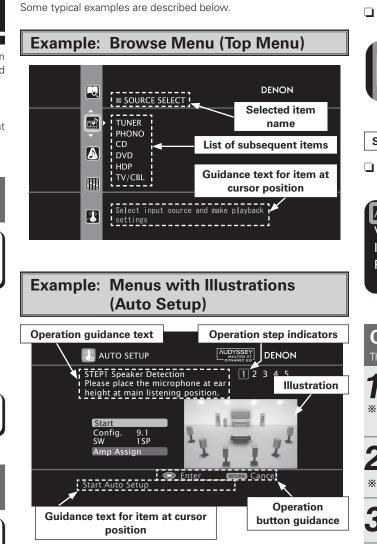
Items for which this mark is indicated at the title can be operated from the $\ensuremath{\mathsf{GUI}}$.

We recommend performing such operations from the GUI.



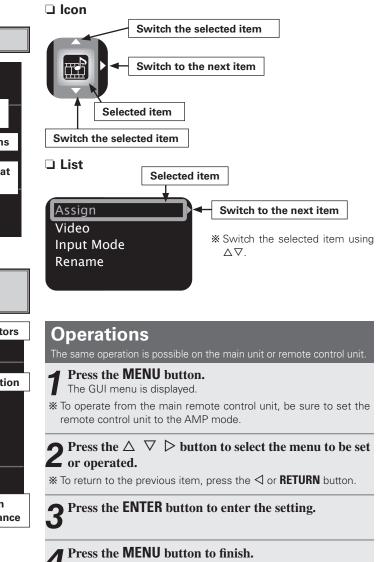
In lists of selectable items or adjustable ranges, the item surrounded by a border is the default value.





Examples of GUI Screen Displays

Cursor Position Display



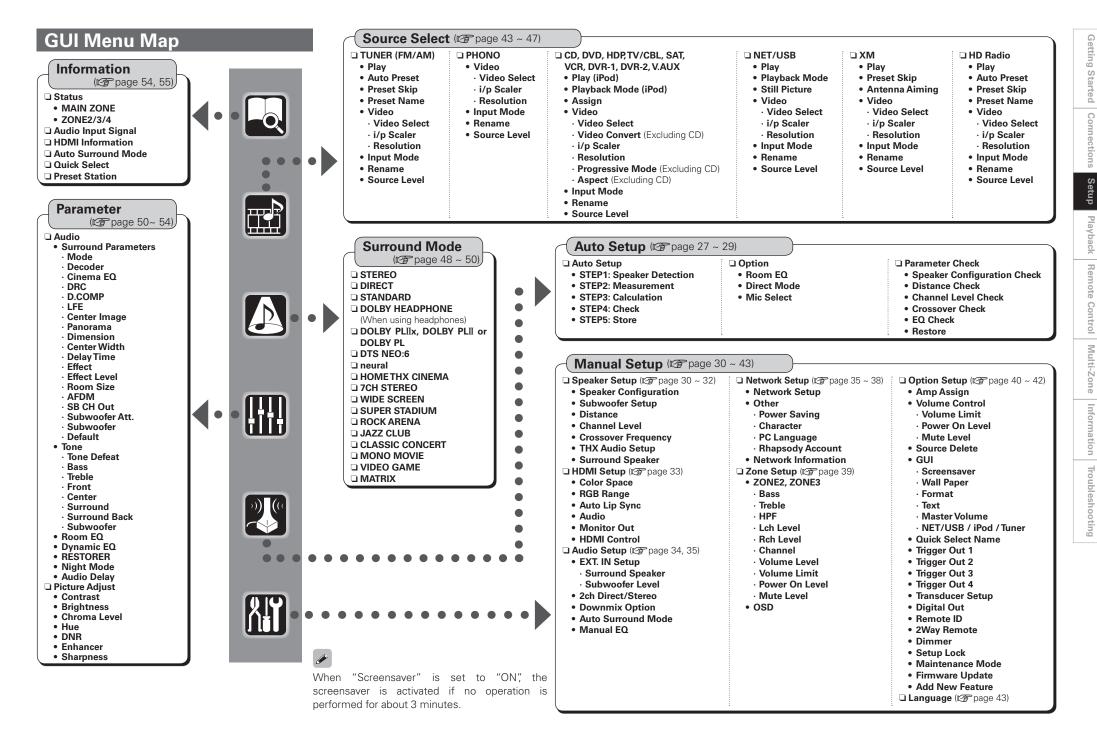




Image: Second second

Z

measurements have the proper spatial weighting.

Auto Setup

seated.

experience for your home theater.

results in more effective correction.

Example (1)

About the main listening position (*M)

Audvssev MultEQ[®] XT automatically measures the acoustical

problems in the listening environment to create the best audio

• It optimizes a large listening area where one or more listeners are

Measurements are performed by placing the calibrated microphone

(DM-A505Z) successively at multiple positions throughout the

listening area as shown in **Example** (1). For best results, it is

strongly recommended to measure 6 or more positions so that the

Even if the listening environment is small as shown in **Example** (2),

measuring at multiple points throughout the listening environment

Example 2

즐

<u>(</u>

2

The main listening position refers to the most central position where one would normally sit within the listening environment. MultEQ XT uses the measurements from this position to calculate speaker distance, level, polarity, and the optimum crossover value for the subwoofer.

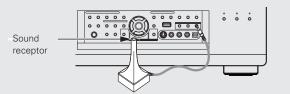
B

To make manual adjustments to the settings, see pages 30 ~ 32.

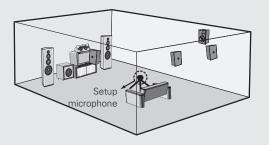
Preparations

GUI

1 Connect the included calibrated setup microphone to the SETUP MIC jack on the main unit. The "Auto setup" screen appears automatically.



2 Place the microphone at ear height on a tripod or stand with the microphone pointing directly up towards the ceiling.



It is not recommended to hold it in your hand. Be sure that the path from microphone to the speakers is not blocked by objects. Avoid placing the microphone close to a seat back or wall as sound reflections may give inaccurate results.

When using a subwoofer, make the following settings before starting the auto setup procedure:

- Defeat the volume and crossover controls if possible
- If this is not possible then set
- Volume: "12 o'clock" position
- Crossover frequency: "Maximum/Highest Frequency"
- $\boldsymbol{\cdot}$ Low pass filter: "Off"
- Standby mode: "Off"

NOTE

1 and the second second

- Do not disconnect the setup microphone until the auto setup procedure is completed.
- When using headphones, unplug the headphones before starting the auto setup procedure.

 Optimize settings for speakers in use. Menu tree 	
Auto Setup	
Auto Setup	
Option	
3 Parameter Check	

1 Auto Setup The settings are performed automatically.

Auto Satun

GUI

STEP1: Speaker Detection STEP2: Measurement (2 to 8 positions) STEP3: Calculation
STEP3: Calculation
STEP3: Calculation
•
•
STEP4: Check
•
STEP5: Store

Start

Start Auto Setup.

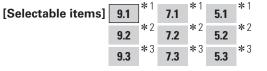
The Audyssey MultEQ XT Auto Setup process automatically calculates the size, level, distance, bass management crossover frequency, and optimal settings for each speaker and subwoofer. Audyssey MultEQ XT corrects acoustical distortions within the listening area. Before starting, connect and position all your speakers.

Once started, MultEQ XT will play a series of test tones through each speaker.

If an error message appears during the measurements, check "Error Messages" (Bpage 29), take the advised action, then start the measurements again.

Configuration

The speaker system to be measured can be selected ahead of time here.



- *1: This can be set when "Subwoofer" is set to "1SP".
- *2: This can be set when "Subwoofer" is set to "2SP L/R" or "2SP MIX"
- *3: This can be set when "Subwoofer" is set to "3SP L/R/LFE" or "3SP MIX"

Setting the correct speaker configuration can reduce the time required to measure during the auto setup procedure as the system will not have to look for speakers that are not connected.

Subwoofer

The configuration of the measuring subwoofer can be selected beforehand.



Amp Assign

Advanced setting : changes power amplifier assignment.

The items selectable at "Configuration" differ according to the "Amp Assian" settinas.

STEP1 : Speaker Detection

The speaker connection and polarity are detected at the first measurement position. The following attributes are also determined at this time: "Speaker Size", "Speaker Distance", "Channel Level", "Crossover Frequency".

Once the measurements are completed, the results are displayed.

- Loud test tone may be played during Audyssey MultEQ XT Automatic Speaker Setup. This is part of normal operation. If there is background noise in room, these test tones will increase in volume.
- Do not stand between the speakers and setup microphone or allow obstacles in the path while the measurements are being made. This will cause inaccurate readings.
- Quiet the listening environment before beginning measurements and refrain from talking. Turn off air conditioning units or other devices that emit noise if at all possible as measurements may be affected by these sounds.
- Operating the MASTER VOLUME knob on the main unit or the VOL +/- buttons on the remote control unit during the measurements will cancel the measurements.
- Do not change the speaker connections or subwoofer volume after "STEP1"

STEP2: Measurement

After completing a measurement position, move the microphone to the next position.

Measure at least 6 positions (main listening position and at least 5 other surrounding positions). For best results it is recommend measuring 6 or more positions (with a maximum of 8 positions).

STEP3: Calculation

When "Calculate" is selected at "STEP2", the measurements taken are analyzed automatically to determine how the speaker system interacts with the room.

(

The time required for this analysis depends on the number of speakers connected. The higher the number of speakers, the longer the time required for analysis.

STEP4: Check

Once the auto setup procedure is complete, a measuring result check screen appears.

Select any item whose results you want to check to review the results.

P

Values that are different from the actual distance may be set for speakers with built-in filters (subwoofers, etc.). This is because filters add electrical delay to the signal that should be compensated.

STEP5: Store

The auto setup measurement results are stored in the AVR-5308CI.



Do not turn the power off while the settings are being stored.

Getting Started

Connections

28

Error Messages

Error messages (examples)

No microphone or speaker

or Level is too low

None

Phase

If the auto setup procedure could not be completed due to speaker installation, the measuring environment, etc., an error message is displayed. If this happens, check the relevant items, be sure to take the necessary measures, then perform the auto setup procedure over again.

Ambient noise is too high . Too much noise in the room for accurate Either turn off any device generating noise or move it

Cause

Included setup microphone is not connected.

• The front L speaker was not properly detected.

• Not all speakers could be detected.

accurate measurements to be made.

Displayed speaker could not be detected.

surround (B) speakers was detected.

· The front R speaker was not properly detected · Only one channel of the surround (A) and

Sound was output from the R channel when only

The surround back or the surround (B) speaker

was detected, but the surround (A) speaker

· When the subwoofer configuration is set at

"2SP L/R", "2SP MIX", "3SP L/R" or "3SP MIX", the subwoofer could not be detected.

one surround back speaker was connected.

measurements to be made

2 Option

Select settings for room EQ, mic, etc.

Room EQ

Measures

Connect the included setup microphone to the SETUP

MIC jack on the main unit.

the speakers are facing.

Adjust the subwoofer's volume.

awav.

• Speaker or subwoofer sound is too low for • Check the speaker installation and the direction in which

Check the speaker connections.

• Try again when the surroundings are guieter.

• Check the connections of the displayed speaker.

• For some speakers, this error message may be displayed

even if the speaker is properly connected. If you are sure

that the wiring is correct, select "Skip".

Select room EQ setting method.

[Selectable items] All Assian

Direct Mode

Select room EQ use for DIRECT or PURE DIRECT mode.

[Selectable items] ON OFF

Mic Select

Select the microphone type if not using supplied mic. The microphone connected to V.AUX Lch is used.

[Selectable items] Mic V.AUX L

P

Only a professionally certified installer should ever connect a professionally-calibrated microphone to the V.AUX L input on the front panel.

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B Parameter Check

Check auto setup measurement results. This is displayed after the auto setup procedure is completed.

• Sometimes due to the electrical complexities of subwoofers and the interaction with the room, THX recommends setting the level and the distance of the subwoofer manually.

• Displayed speaker connected with the polarities • Check the polarities of the displayed speaker.

• Sometimes due to interaction with the room, you may notice irregular results when setting the level and/or distance of the main speakers. If this happens, THX recommends setting them manually.

• Please note that any THX main speakers should be set to Small (80 Hz). If you set up your speakers using Auto Setup, please make sure manually that any THX speakers are set to Small with 80 Hz crossover.

Select "Retry" to make the measurements again.

NOTE Be sure to turn the power off before checking the speaker connections.

was not detected.

reversed.

[Selectable items]

Spkr Config Check Distance Check Ch. Level Check Crossover Check EQ Check Restore

The auto setup results can be reset to what was originally calculated by MultEQ XT when "Restore" is selected.

Getting Started





Make detail settings for various parameters.

Speaker Setup Use this procedure to set the speakers manually or if you wish to change the settings made with the auto setup procedure. • Menu tree • Manual Setup • Speaker Setup • Speaker Setup • Speaker Configuration • Subwoofer Setup • Distance • Channel Level • Crossover Frequency • THX Audio Setup

1 Speaker Configuration

7 Surround Speaker

Select speaker configuration and size. (bass reproduction capability)

Front

Select front speaker size.

[Selectable items] Large Small

Center

Select center speaker use and size.

[Selectable items] Large Small None

Subwoofer

GUI

Select subwoofer use.

[Selectable items] Yes No

Surround A

Select surround speakers A use and size.

[Selectable items] Large Small None

Surround B

Select surround speakers B use and size.

[Selectable items] Large Small None

Surround Back

Select surround back speaker use and size.

[Selectable items] Large Small None 2spkrs 1spkr

- Large :Select this for a large speaker with strong bass reproduction.
- **Small** : Select this for a smaller speaker with weaker bass reproduction.

 Select "Large" or "Small" not according to the physical size of the speaker but according to the low frequency reproduction capabilities based on the frequency set at "Crossover Frequency" (12) page 31, 32).

- When "Front" is set to "Small", "Subwoofer" is automatically set to "Yes".
- If "Subwoofer" is set to "No", "Front" is automatically set to "Large".
- If "Surround A" is set to "None", "Surround B" and "Surround Back" are automatically set to "None".
- When using just one surround back speaker, connect it to the left channel (SBL).
- To take full advantage of the performance of the Home THX certified speaker systems, set the front, center and surround speaker size parameters to "Small" and the subwoofer to "Yes".

2 Subwoofer Setup

Select subwoofer output configuration and bass signal for playback. $% \label{eq:select}$

Configuration

Select number of subwoofers and configuration.

[Selectable items]

1SP	2SP L/R	2SP MIX	3SP L/R/LFE	3SP MIX

Subwoofer Confi	guration	Subwoofer Connector		
1SP		SW1		
	L	SW1		
2SP L/R	uration	SW2		
	1	SW1		
2SP MIX	2	SW2		
	L	SW1		
3SP L/R/LFE	R	SW2		
	LFE	SW3		
	1	SW1		
3SP MIX	2	SW2		
	3	SW3		

When "2SP MIX" or "3SP MIX" is selected, "Subwoofer 1", "Subwoofer 2" and "Subwoofer 3" are each displayed.

Mode

Select bass signal for playing with the subwoofer.

[Selectable items] LFE-THX- LFE+Main



- THX recommends LFE–THX– mode so that bass interference is less likely to occur in the room.
- This can be set when the GUI menu "Speaker Configuration" "Subwoofer" is set to "Yes".
- Play music or a movie source and select the mode offering the strongest bass.
- Select "LFE+Main" if you want the bass signals to always be produced from the subwoofer.

3 Distance

Set distance from listening position to speakers. Before making the settings, measure the distance from the listening position to the different speakers.

Feet / Meters

Select unit for distance.

Step

Getting Started

Connections

Setup

Playback

Remote Control

Multi-Zone

Information

Troubleshooting

Select step. (smallest distance)

[Selectable items]

1ft 0.1ft : Can be selected when "Feet" is s	et.
--	-----

0.1m 0.01m : Can be selected when "Meters" is set.

Default

Resets the settings to the default values.

Distance measurement

Select the speaker you want to set, then set the distance. Set the value closest to the measured distance.

[Variable range]

0.0ft ~ 60.0ft : Display when "Feet" is set.

0.00m ~ 18.00m : Display when "Meters" is set.

Two surround back speakers are required to use the THX Ultra2 Cinema, THX Music mode and THX Games mode.

Set the surround back speakers so that the distance to the listening position is the same for both the left and right speakers. It is also recommended that the deviations of the distance from the listening position to L and R channel speakers (front left (FL) and front right (FR), surround left (SL) and surround right (SR), surround back left (SBL) and surround back right (SBR) is less than 2 ft (60 cm).

NOTE

Set the distance between the listening position and the various speakers to no more than 20.0 ft (6.00 meters).

4 Channel Level

Adjust channel levels to obtain equal volume from all speakers.

Mode

Select test tone playback method.

[Selectable items]	Auto	Manual
--------------------	------	--------

Surround

Select surround speaker from which test tone is output.

[Selectable items] A B

Start

Output test tone.

[Variable range] –12dB 0dB ~ +12dB OFF

*: "OFF" can be set by pressing \lhd when the subwoofer's volume is set to -12 dB.

A+B

Default

Resets the settings to the default values.

R Operating from the main remote control unit

Adjusting with the main remote control unit using the test tones is only possible in the "Auto" mode and only effective in the STANDARD (Dolby/DTS Surround) and HOME THX CINEMA modes. The adjusted levels for the different modes are automatically stored in the memory.

[Adjusting using test tones]

1 Press the $\ensuremath{\text{TEST}}$ button.

- Test tones are output from the various speakers.
- (2) Use the \triangleleft \triangleright button to adjust so that the volume is equal for all speakers.
- ③ When the adjustments are completed, press the **TEST** button again.

• The level of each channel should be adjusted to 75 dB (Cweighted, slow meter mode) on a sound level meter at the listening position. If a sound level meter is not available adjust the channels by ear so the sound levels are the same. Because adjusting the subwoofer level test tone by ear is difficult, use a well known music selection and adjust for natural balance.

- When the GUI menu "Speaker Configuration" "Surround Back" setting (Ppage 30) is set to "1spkr", the surround back speaker display is set to "Surround Back".
- Speakers set to "None" in the "Speaker Configuration" settings are not displayed.
- "Surround" can be set when GUI menu "Speaker Configuration" -"Surround B" is set to "Large" or "Small" (127) page 30).
- When using surround speakers, be sure to adjust the volume of the different speakers.
- When "Channel Level" is adjusted, the adjusted values are set for all the surround modes. To adjust the channel level separately for the different surround modes, use the operation see page 74.

5 Crossover Frequency

Select crossover frequency from which subwoofer handles low range signal.

[Selectable items]

FIXED-THX-

(

Set to the THX rated 80 Hz crossover frequency.

40Hz	60Hz	80Hz	90Hz	100Hz	110Hz	120Hz	150Hz
200Hz	250Hz	:					

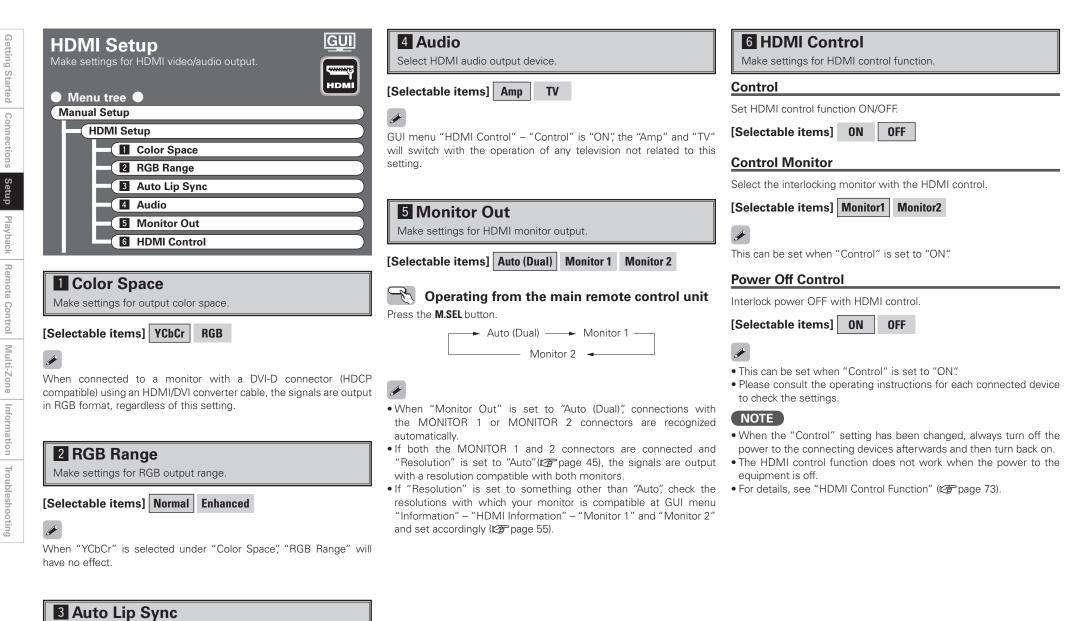
Only the portion of the bass sound of the various speakers output from the subwoofer that has a frequency below the frequency set here is output.

Set this according to the low frequency reproduction capabilities of the speakers you are using.

Advanced

Set the crossover frequency separately for the different speakers.

<i>C</i>	BGC (Boundary Gain Compensation)	THX/DOLBY Game		
• Please set all THX Certified speakers, set the "Speaker Configuration"	Adjust the bass volume when it feels too strong.	[Selectable items] A B A+B		
for all speakers to "Small". We recommend using with the crossover frequency set to "FIXED-THX-", but depending on the speaker, setting it to a different frequency may improve frequency response	[Selectable items] UN UFF	WIDE SCREEN		
near the crossover frequency.The "Crossover Frequency" can be set when there are speakers	If the bass sound seems too strong:	[Selectable items] A B A+B		
that have been set to "Small" at GUI menu "Speaker Configuration" - "Speaker Configuration" or when "Subwoofer" is set to "Yes"	Set "BGC" to "ON". This activates a filter that gently reduces very deep bass below 55 Hz to provide the flattest overall deep bass	7CH STEREO		
(☞ page 30). • At the "Advanced" settings, if the GUI menu "Subwoofer Setup"	response. Select "ON" or "OFF" according to how strong you prefer the deep bass response to be.	[Selectable items] A B A+B		
(127 page 30) setting is set to "LFE-THX-", speakers for which "Speaker Configuration" is set to "Small" can be set. If set to	• This can be set when the "THX Ultra2 Subwoofer" setting is set to "Yes".	DSP SIMULATION		
"LFE+Main", the setting can be made regardless of the speaker size.	SB Speaker Position	[Selectable items] A B A+B		
• For speakers set to "Small", sound below the crossover frequency is cut from the sound output. The cut bass sound is output from the	Set the distance between the left and right surround back speakers.	MULTI CH MODE		
subwoofer or front speakers.	[Selectable items] Under 1ft 1ft – 4ft Over 4ft	[Selectable items] A B A+B		
6 THX Audio Setup Set the speaker to play the optimal THX surround mode. THX Ultra2 Subwoofer	 When two surround back speakers have been set in "Speaker Configuration" (P page 30), set the distance of the speakers. This option is not available when "1spkr" is selected. This setting is necessary to achieve the optimum effect in the THX 	Operating from the main remote control unit Press the SPKR button. Surround A Surround B		
Set when using a subwoofer compatible with THX Ultra2 standards or a subwoofer that can be properly played at low range.	Surround EX, THX Ultra2 Cinema, THX Music mode and THX Games mode.	Surround A+B -		
[Selectable items] Yes No		<i>*</i>		
Make these settings when "Yes" is selected for the subwoofer in the "Speaker Configuration" settings. This option is not available when	7 Surround Speaker Select surround speakers to use for each surround mode.	 This can be set when GUI menu "Speaker Configuration" – "Surround A" and "Surround B" are used (Pp page 30). When using the pre-out connectors, select and use either "Surround A" or "Surround B". Make the surround speaker settings when the input mode is set to 		
"No" is selected (@ page 30).	THX/DOLBY/DTS Cinema	"EXT. IN" at GUI menu "Manual Setup" – "Audio Setup" – "EXT. IN Setup" (@ page 34).		
	[Selectable items] A B A+B	About Speaker Type Setting when Using Both		
	THX/DOLBY/DTS Music	Surround speakers A and B		
	[Selectable items] A B A+B	If "Small" is set for either surround speakers A or B, the output is the same as when "Small" is set for both A and B		



Automatic compensation for timing shift in audio and video output.

[Selectable items] ON OFF

Audio Setup Make settings for audio playback.	2 2ch Direct/Stereo Make speaker settings for 2-channel mode playback.	3 Downmix Option Set dynamic range for downmix playback of Dolby Digital sources.
Menu tree	Setting	[Selectable items] ON OFF
Audio Setup EXT.IN Setup 2 2ch Direct/Stereo	To change the settings, select "Custom". [Selectable items] Basic * Custom *: Use the same settings as in "Speaker Setup".	 Set this to "ON" if the sound from the front speakers seems distorted. When not using the center speaker or surround speakers, the
Downmix Option Auto Surround Mode	Front Select front speaker size.	playback sound is down-mixed and output from the front speakers.
1 EXT. IN Setup	[Selectable items] Large Small Subwoofer	4 Auto Surround Mode Make setting for memorizing surround mode setting for each input signal type.
Make speaker settings for EXT. IN mode playback.	Select subwoofer use.	[Selectable items] ON OFF
Surround Speaker	[Selectable items] Yes No	<i>s</i>
Select the surround speakers to use.	Subwoofer Mode	 The auto surround mode function lets you store in the memory the surround mode last used for playing the four types of input signals
[Selectable items] A B A+B	Select low range signal to be reproduced by subwoofer.	listed below.
	[Selectable items] LFE–THX– LFE+Main	 Analog and PCM 2-channel signals Dolby Digital and DTS 2-channel signals
This can be set when GUI menu "Speaker Setup" – "Speaker Configuration" – "Surround A" and "Surround B" are used (12) page	Crossover	 ③ Dolby Digital and DTS multi-channel signals ④ Multi-channel signals other than Dolby Digital and DTS (PCM, DSD, etc.)
30).	Select crossover frequency from which subwoofer handles low range signal.	 When playing in the PURE DIRECT mode, the surround mode does not change even if the input signal is changed.
Subwoofer Level	[Selectable items]	not ondrigo ovor in the input orginal to ondrigod.
Set the subwoofer level for playback.	THX 40Hz 60Hz 80Hz 90Hz 100Hz 110Hz 120Hz	

150Hz 200Hz 250Hz

[Variable range] 0.0ft ~ 60.0ft

[Variable range] 0.0ft ~ 60.0ft

Set distance from listening position to front left speaker.

Set distance from listening position to front right speaker.

Distance FL

Distance FR

Select according to the player in use.

We recommend setting to "+15 dB".

[Selectable items] 0dB +5dB +10dB

+15dB

Remote Control Multi-Zone Information Troubleshooting

Getting Started

Connections

Setup

Playback

5 Manual EQ

Adjust tonal quality for each speaker using graphic equalizer.

Adjust CH

Select speaker adjustment method.

[Selectable items] Each L/R All

Select the speaker and frequency band and adjust the level.

[Selectable items]

63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz
16kHz							

[Variable range]

–20dB ~ 0dB ~ +6dB

Curve Copy

Copy the Room EQ's "Audyssey Flat" correction curve.

[Selectable items] Yes

"Curve Copy" is displayed after the auto setup procedure has been performed.

No

Default

Resets the settings to the default values.

GUI **Network Setup** Make network settings. Menu tree Manual Setup Network Setup 1 Network Setup 2 Other 3 Network Information

• If you are using a broadband router (DHCP function), there is no need to make the settings at "Setting the IP Address" and "Setting the Proxy", since the DHCP function is set to "ON" in the AVR-5308CI's default settings.

- If the AVR-5308CI is being used connected to a network without the DHCP function, the network settings must be made. In this case, some knowledge of networks is required. For details, consult a network administrator.
- If you cannot connect to the Internet, recheck the connections and settings (B page 22).
- If you do not understand about Internet connection, contact your ISP (Internet Service Provider) or the store from which you purchased vour computer.

• DHCP (Dynamic Host Configuration Protocol) :

These are systems by which the IP address and other network settings are automatically set for the AVR-5308CI, computer, broadband router and network devices.

• DNS (Domain Name System) :

This is a system for converting the domain names used when browsing Internet sites (for example, "www.denon.jp") into the IP addresses actually used for communications (for example, "202.221.192.106").

1 Network Setup

Make settings for wired or wireless LAN.

Wired LAN settings

Use this procedure to configure the Wired LAN settings.

Connect the LAN cable (page 22).

2 Turn on the AVR-5308CI (CP page 56). AVR-5308CI performs automatic network setup due to the DHCP function.

When connecting to a network that has no DHCP function, perform the setting in step 3.

5 "Network Setup" – "Network Setup".

NETWORK SETUP	DEN	ON
Connection complet	ed.	
DHCP	ON	
IP Address	192.168.000.003	
	1 Select "De	etail".
Exit Detail		
Set IP address and pro		③ Input the address.
	DHCP	↓ OFF ↓
	IP Address	192 .168 .000 .001
	Subnet Mask	255 .255 .255 .000
2 Set "OFI	Default Gateway	000 .000 .000 .000
	Primary DNS	000 .000 .000 .000
	Secondary DNS	000.000.000.000
	Proxy	
	Exit	
		RETURN Cancel
	Set IP address manual	

- (1) Select "Detail" and press ENTER.
- (2) Use $\triangleleft \triangleright$ to set "DHCP" to "OFF", then press ∇ . The DHCP function is disabled.

(3) Use $\Delta \nabla \triangleright$ to input the address and press **ENTER**.

IP Address

Set the IP address within the ranges shown below. The Network Audio function cannot be used if other IP addresses are set. CLASS A: 10.0.0 ~ 10.255.255.255 CLASS B: 172.16.0.0 ~ 172.31.255.255 CLASS C: 192.168.0.0 ~ 192.168.255.255

Subnet Mask

When connecting an xDSL modem or terminal adapter directly to the AVR-5308CI, input the subnet mask indicated in the documentation supplied by your provider. Normally input 255.255.255.0.

Default Gateway :

When connected to a gateway (router), input its IP address.

Primary DNS Secondary DNS

If there is only one DNS address indicated in the documentation supplied by your provider, input it at "Primary DNS". If there are two or more DNS addresses, input the first one at "Secondary DNS".

④ Use
 ✓ to select "Exit" and press ENTER.
 Setup is complete.

When connecting to the network via a Proxy server, select "Proxy" and press ENTER (@ page 38 "Proxy settings").

Wireless LAN settings

Use this procedure to configure the Wireless LAN settings.

1 Fitting a rod antenna (P page 22).

* If a LAN cable is connected, remove it.

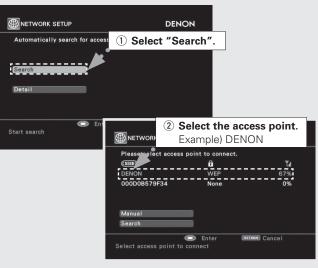
7 Turn on the AVR-5308CI (T page 56).

3 Set the access point at the GUI menu "Manual Setup" – "Network Setup" – "Network Setup".

When searching access points to connect automatically, refer to "Automatic settings".

When searching access points to connect manually, refer to "Manual settings".

Automatic settings



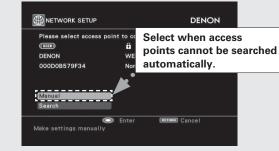
① Select "Search" and press **ENTER**.

The access point you have set is displayed.

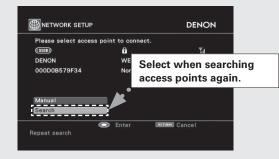
(2) Use $\Delta \nabla$ to select the access point, and then press ENTER.

% If the access points are not detected automatically, use ∇ to select the "Manual" and press **ENTER**.

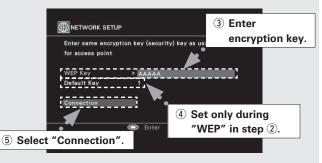
Setting becomes manual. For details, see "Manual settings" (127 page 37, 38).



% If the access points are repeat search, use \bigtriangledown to select the "Search" and press ${\bf ENTER}.$



③ If there is an encryption setting for the access point you selected in step ②, enter same encryption key as used for the access point. (If there is no encryption setting, proceed to step ⑤.



Getting Started

Connections

Getting Started

Connections

Use $\Delta \nabla \triangleleft \triangleright$ to input the "Key" (encryption key) and press ENTER.

Enter the same encryption key as used for the access point.

[Characters that can be input]

A~Z a~z 0~9 ! " # % & '() * +, -./:;<=>?@[\](space)

When no security settings have been used in the Internet connection settings, this step is not necessary.

 ④ When encryption is by "WEP", select the "Default Key" using ∇, and then press ⊲ ▷.

[Selectable items] 1 2 3 4

Select the same default key as used for the access point. This should normally be set to "1".

⑤ Use ∇ to select "Connection" and press ENTER. Network connection starts.

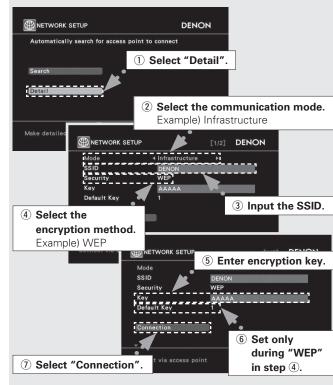
When connection is established with the access point, "Connection completed." is displayed.

Connection comp	leted.	
рнср	ON	
IP Address	192.168.000.003	
Exit Detail		
Detail		

AVR-5308CI performs automatic network setup due to the DHCP function.

When connecting to a network that has no DHCP function, perform the setting in step 4.

Manual settings



① Select "Detail" and press **ENTER**.

(2) Use $\triangleleft \triangleright$ to select the Mode and press ∇ .

[Selectable items]

- **Infrastructure** : Select when communication is via an access point.
 - Ad-hoc : Select during direct communication, when an access point is not used.
- (3) Use $\Delta \nabla \triangleleft \triangleright$ to input the name of the wireless network (SSID) and press **ENTER**.

[Characters that can be input]

A~Z a~z 0~9 !"#%&'()*+,-./:;<=>?@[\](space)

(4) Use $\Delta \nabla$ to select the Security and press ∇ .

[Selectable items]

None :

Select if not encrypted.

Can also be used even without encryption, through we recommend encryption for improved security.

WEP WPA-PSK(TKIP) WPA-PSK(AES) WPA2-PSK(TKIP)

WPA2-PSK(AES) :

Select the encryption method according to the encryption setting of the access point you are using.

(5) Use $\Delta \nabla \triangleleft \triangleright$ to input the "Key" (encryption key) and press **ENTER**.

Enter the same encryption key as used for the access point.

[Characters that can be input]

A ~ Z	a ~ z	0~9	! " # % & '() * +,/:; < = > ? @ [\] (space)
-------	-------	-----	---

When no security settings have been used in the Internet connection settings, this step is not necessary.

(6) When encryption is by "WEP", select the "Default Key" using ∇, and then press ⊲ ▷.

[Selectable items] 1 2 3 4

Select the same default key as used for the access point. This should normally be set to "1".

0 Use ∇ to select "Connection" and press $\mbox{ENTER}.$ Network connection starts.

When connection is established with the access point, "Connection completed." is displayed.



 $\operatorname{AVR-5308CI}$ performs automatic network setup due to the DHCP function.

When connecting to a network that has no DHCP function, perform the setting in step 4.

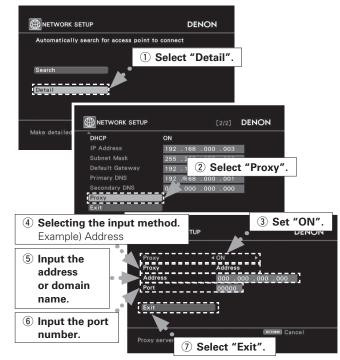
A Set the IP address.

* For details, see page 35, 36 "Wired LAN settings" in step 3.

If you are using a router with no DHCP function to automatically assign the IP address, set the IP address manually.

Proxy settings

Make this setting when connecting to the Internet via a proxy server.



- On the GUI menu, select "Manual Setup" "Network Setup" – "Network Setup" – "Detail" and press ENTER.
- (2) Use $\Delta \nabla$ to set "Proxy" and press ENTER
- ③ Use ⊲ ▷ to set "Proxy" to "ON" and press ∇. The proxy server is enabled.

(4) Use $\triangleleft \triangleright$ to select the proxy server input method, and then press ∇ .

[Selectable items]

- Address : Select when inputting by address.
- Name : Select when inputting by domain name.
- (5) Use △▽ ▷ to input the proxy server address or domain name and press ENTER.
 When "Address" is selected in step ④: Input the address

When "Name" is selected in step ④: Input the domain name

[Characters that can be input]

A~Z a~z 0~9 ! " # % & '() * +, -./:; < =>?@[\](space)

- (6) Use $\Delta \nabla \triangleleft \triangleright$ to input the proxy server port number and press **ENTER**.
- ⑦ Use ∇ to select "Exit" and press **ENTER**. Setup is complete.

2 Other

Make setting for amp power save mode and computer language environment.

Power Saving

Make setting for power saving when not connected to network.

[Selectable items] ON OFF

To use the web control function, set this setting to "OFF".

Character

Set the character code type of the MP3 ID3-Tag played by USB.

[Selectable items] Auto Latin Japanese

If the characters are not properly displayed when set to "Auto", set to "Latin" or "Japanese".

PC Language

Select computer environment language.

[Selectable items]

ara	chi (s	mpl)	chi	(trad)	cze	da	an	dut	en	g fi	n
fre	ger	gre	he	eb h	un	ita	jp	n k	or	nor	pol
por	por (E	BR)	rus	spa	sw	e t	tur				

Rhapsody Account

Set or change Username and Password. "Listening to Rhapsody" (@page 68)

Username : **Username**

[Input characters]

a~z A~Z 0~9

! " # \$ % & () * + , - . / :; < = > ? @ [\] ^_`{ [}~ (space)

Enter password :	Password
------------------	----------

[Input characters]

Clear Rhapsody account :

a ~ z A ~ Z 0 ~ 9

! " **# \$ % & ()** * **+**, - . / : ; < = > ? @ [\]^`{|}~ (space)

Clear

[Selectable items] Yes

ø

The Account Number received is displayed during the 30-day free trial.

No

Display network information.

[Items to be checked]

Wired or Wireless SSID DHCP= ON or OFF IP Address

MAC Address

Getting Started	
Connections	
Setup	
Playback	
Remote Control	
Multi-Zone	
Information	
Troubleshooting	

Zone Setup

Make settings for audio playback in a multi-zone

Menu tree Manual Setup	Channel
Zone Setup	Switch between stereo and mono o
ZONE2	[Selectable items] Stereo Mo
Z ZONE3	
	<i>i</i>
	When GUI menu "Manual Setup" – set to "ZONE (MONO)", "Bi & ZONE
I ZONE2	the "Channel" setting is automatical
Make settings for audio playback in a ZONE2 system.	Volume Level
2 ZONE3	Adjust the main volume level.
Make settings for audio playback in a ZONE3 system.	[Selectable items] Variable -
Bass	
Adjust low frequency range (bass).	"Variable" is set when a power am
[Variable range] -10dB ~ 0dB ~ +10dB	ZONE3 output channel at GUI menu – "Amp Assign"
	- Amp Assign.
Treble	Volume Limit
Adjust high frequency range (treble).	Make a setting for maximum volume
[Variable range] -10dB ~ 0dB ~ +10dB	[Selectable items] OFF -200
HPF	<i>C</i>
When using speakers that cannot satisfactorily play low frequencies,	This can be set when "Volume Leve
distortion of the bass sound can be reduced by setting "HPF" to "ON".	Power On Level
[Selectable items] ON OFF	Define the volume setting that is act
	[Selectable items] Last
Lch Level	
Adjust the left channel output level.	This can be set when "Volume Leve
[Variable range] –12dB ~ 0dB ~ +12dB	
de la companya	Mute Level
The "Lch Level" and "Rch Level" can be set when "Channel" is set	Set the amount of attenuation when
to "Stereo".	[Selectable items] Full –400

Rch Level

GUI

Adjust the right channel output level.

[Variable range] 12dP 0dB +12dB ~

utput.

no

"Option Setup" – "Amp Assign" is (MONO)" or "ZONE2/3 (MONO)", Ily set to "Mono".

0dB -40dB

plifier is assigned to the ZONE2/ "Manual Setup" – "Option Setup"

dB –10dB 0dB

I" is set to "Variable".

tive when the power is turned on.

– –**70dB ~ 18dB**

I" is set to "Variable".

muting is on.

[Selectable items]	Full	-40dB	-20dB
--------------------	------	-------	-------

3 OSD

Set ZONE2 monitor as onscreen display Zone.

[Selectable items]

ZONE2 Display only ZONE2 operations.

ZONE2/ZONE3 : Display ZONE2 and ZONE3 operations.

NOTE

- When connected to the component video output connectors, the on-screen display is not displayed.
- On-screen display appears only on the ZONE2 monitor. It does not appear on the ZONE3 monitor.

Option Se	etup	GUI
Make various othe	er settings.	
Menu tree	•	
Manual Setup		
Option S	etup	
	Amp Assign	
2	Volume Control	
3	Source Delete	
-4	GUI	
- 5	Quick Select Name	
-6	Trigger Out 1	
- 7	Trigger Out 2	
	Trigger Out 3	
9	Trigger Out 4	
	Transducer Setup	
	Digital Out	
12	Remote ID	
- 13	2Way Remote	
- 14	Dimmer	
- 15	Setup Lock	
16	Maintenance Mode	
	Firmware Update	
	Add New Feature	

1 Amp Assign

Define how the amplifier for the surround and/or surround back speaker channels is used.

The places where the surround amplifier and surround back amplifier are used can be set freely according to the usage environment. This makes it possible to output sound to rooms other than the room (the MAIN ZONE) where surround playback is performed (multi-zone playback) or play the sound with high quality using the front speakers (bi-wiring/bi-amp connections).

[Selectable items]

Normal	Z0	NE2	ZONE3	ZONE(N	/IONO)	Bi-	Wiring
Bi & ZON	IE2	Bi 8	& ZONE3	Bi & Z01	NE(MOP	10)	Bi-Amp
ZONE2/2	ZON	E3	ZONE2/3	(MONO)	2CH B	i-Wi	ring
2CH Bi-A	Amp	Fre	ee Assign				

For details, see "Amp Assign / Multi-Zone Connections and Operations" (CF page 85 ~ 88).

2 Volume Control

Set the MAIN ZONE volume setting.

Volume Limit

Make a setting for maximum volume.

[Selectable items] OFF -20dB -10dB 0dB

Power On Level

This sets the volume set when the MAIN ZONE's power is turned on.

[Selectable items]	Last		-80dB ~ 18dB
--------------------	------	--	--------------

Mute Level

This sets the amount of attenuation of the volume when the mute mode is set in the MAIN ZONE.



-40dB -20dB

3 Source Delete

Make GUI related settings.

Make screensaver settings.

[Selectable items] ON

Change the GUI background.

[Selectable items] NTSC

[Selectable items] Picture Black

described below to change the video format.

Remove input sources that are not used from the display.

[Selectable items] ON Delete

NOTE

4 GUI

Screensaver

for about 3 minutes.

Wall Paper

Format

- Input sources being used in the various zones cannot be deleted.
- Input sources set to "Delete" cannot be selected from GUI menu "Source Select" or using the **SOURCE SELECT** knob on the main unit or SOURCE SELECT button on the remote control unit.

Use the screensaver to prevent burn-in on the monitor screen.

Select the video output signal format to match the monitor.

When set to "ON" the screensaver is activated if there is no activity

OFF

PAL

When a format other than the video format of the connected monitor is set, the picture will not be displayed properly. Use the procedure

Grav

Blue

- Operating from the main unit
- * The GUI menu is not displayed when performing this setting.
- (1) Press and hold the **AUDIO DELAY** and **RETURN** buttons for at least 3 seconds.
- "Video Format" appears on the display.
- (2) Use the $\triangleleft \triangleright$ button to make the setting.
- (3) Press the ENTER, MENU or RETURN button to complete the settina.

	*Ų	i	0 N1		m >	0)	t	

Text information display.

Text

[Selectable items] ON OFF

Master Volume

Master volume display during adjustment.

[Selectable items] ON **OFF**

NET/USB / iPod / Tuner

This sets the time the on-screen display is displayed when an operation is performed

[Selectable items] Always 30s 10s OFF

5 Quick Select Name

Change the Quick Select name. Up to 16 characters can be input

[Input characters]

A ~ Z a ~ z 0 ~ 9 ! " # % & ' () * + , / : ; < = > ? @

Getting Started Connections Setup Playback Remote Control Multi-Zone Information Troubleshooting

40

	6 Trigger Out 1
	Select the conditions to turn on the trigger out 1 with respect to the zone, input source, surround mode, HDMI monitor, etc. For details about the trigger out function, see page 24.
	7 Trigger Out 2
	This sets the conditions to turn on the trigger out 2, in the same way as "Trigger Out 1" above.
	8 Trigger Out 3
	This sets the conditions to turn on the trigger out 3, in the same way as "Trigger Out 1" above.
	9 Trigger Out 4
	This sets the conditions to turn on the trigger out 4, in the same way as "Trigger Out 1" above.
	[Selectable items] ON
S	Setting with Respect to the Zone
S	Setting with Respect to the Zone
S	Setting with Respect to the Zone When the power of the zone turned on/off, the trigger out turns on.
	Setting with Respect to the Zone When the power of the zone turned on/off, the trigger out turns on. Setting with Respect to the Input Source
	Setting with Respect to the Zone When the power of the zone turned on/off, the trigger out turns on. Setting with Respect to the Input Source When the input source set to on is selected, the trigger out turns on.
	[Selectable items] ON Setting with Respect to the Zone When the power of the zone turned on/off, the trigger out turns on. Setting with Respect to the Input Source When the input source set to on is selected, the trigger out turns on. Massociated with respect to the input source for zones set to "ON" at "Setting with Respect to the Zone".
	Setting with Respect to the Zone When the power of the zone turned on/off, the trigger out turns on. Setting with Respect to the Input Source When the input source set to on is selected, the trigger out turns on. Associated with respect to the input source for zones set to "ON" at "Setting with Respect to the Zone".
	Setting with Respect to the Zone When the power of the zone turned on/off, the trigger out turns on. Setting with Respect to the Input Source When the input source set to on is selected, the trigger out turns on. Associated with respect to the input source for zones set to "ON" at
	Setting with Respect to the Zone When the power of the zone turned on/off, the trigger out turns on. Setting with Respect to the Input Source When the input source set to on is selected, the trigger out turns on. Setting with respect to the input source for zones set to "ON" at "Setting with Respect to the Zone". Setting with Respect to the Surround Mode When the surround mode set to on is selected, the trigger out turns

Setting with Respect to the Monitor

When the HDMI monitor set to on is selected, the trigger out turns on.

This is effective when the "MAIN ZONE" has been set to "ON" for the "Setting with Respect to the Zone" and the input source which is set to "ON" has been selected for the "Setting with Respect to the Input Source".

10 Transducer Setup

Settings when using transducer.

The Transducer Setup can be accessed through GUI menu "Speaker Setup" - "Subwoofer Setup" is "1SP", "2SP L/R" or "2SP MIX". The transducer signal is outputted from "SW3".

Level

[Variable range] -12dB 0dB +12dB ~

Set the transducer level.

OFF

Turn the transducer output off.

When you adjust "Level", the adjusted value is set for all surround modes. To adjust the level for individual surround modes, use "Channel Level" (B page 74).

LPF

Set the upper limit for the bass signal frequency outputted from the transducer.

[Selectable items]

40Hz	60Hz	80Hz	90Hz	100Hz	110Hz	120Hz
150Hz	200Hz	250Hz				

11 Digital Out

Set usage of OPT4 OUT.

[Selectable items] ZONE4 Select Rec Select

NOTE

The ZONE4 operations cannot be performed when set to "Rec Select".

12 Remote ID

Set remote control ID.

Match the ID setting of the remote control unit and the receiver.

[Selectable items] 2 3 4

- - When changing the remote ID, also change the AMP, iPod, TU and NET/DTU modes of the main remote control unit at the same time (12) page 79).
 - When changing the remote ID, also change the sub remote control unit at the same time (PP page 84).

13 2Way Remote

Set when using the 2-way remote control unit.

[Selectable items] Used | Not Used

When using a 2-way remote control unit (RC-7000Cl and RC-7001RCl, sold separately), set this to "Used".

- When using the 2-way remote control unit, connect to the Port 1 RS-232C connector.
- If GUI menu "Manual Setup" "Option Setup" "2Way Remote" is set to "Used", you cannot use port 1 of the RS-232C terminal for the external controller.

14 Dimmer

Adjust display brightness of the receiver.



Operating from the main unit

Press the **DIMMER** button.



15 Setup Lock

Protect settings from inadvertent change.

[Selectable items] ON OFF

- When "Setup Lock" is set to "ON", the settings listed below can no longer be changed. Also, "SETUP LOCKED!" is displayed if you attempt to operate related buttons.
- $\cdot\,$ GUI menu operations
- · RESTORER
- · Night Mode
- · Parameter
- · Room EQ
- · Channel Level
- · Audio Delay
- To cancel the setting, press the **MENU** button to re-display the "Setup Lock" screen, then change the setting to "OFF"

16 Maintenance Mode

This sets the function for maintenance by a DENON service person or installer. (For professional use only.)

This function allows a DENON serviceperson or installer to check the AVR-5308Cl's status and make settings via the Internet.

NOTE

Only use this function if so instructed by a DENON service person or installer.

17 Firmware Update

Update the firmware of the receiver.

Check for Update

You can check for firmware updates. You can also check approximately how long it will take to complete an update.

Start

Execute the update process.

When updating starts, the power indicator becomes red and the GUI screen is shut down.

The amount of update time which has elapsed is displayed during the update process.

When updating is complete the power indicator becomes green and normal status is resumed.

* If the display reads as shown below, check the settings and network environment, then update again.

Display	Description
Updating failed	Updating failed.
Login failed	Failure to log into server.
Server is busy	Server is busy. Wait a while then try again.
Connection fail	Failure connecting to server.

18 Add New Feature

Display the new functions which can be purchased for downloading to the AVR-5308Cl and upgrade.

When you purchase a new function and register your user information, "Registerd" is displayed on this menu and you can proceed with the upgrade.

Upon completion of the upgrade, you can start using the new function.

Upgrade

Execute the upgrade process.

When upgrading starts, the power indicator becomes red and the GUI screen is shut down.

The amount of upgrade time which has elapsed is displayed during the upgrade process.

When upgrading is complete the power indicator becomes green and normal status is resumed.

* If the upgrade is not successful, an error message identical to those in "Firmware Update" will appear on the display.

Notes concerning use of "Firmware Update" and "Add New Feature"

- In order to use these functions, you must have the correct system requirements and settings for a broadband Internet connection. For details, see pages 35 ~ 38.
- Do not turn off the power until updating or upgrating is completed.
 Normally there is no need to use this function, aside from the cases described below.
- · Firmware Update : In the case of applying the latest firmware updates (free)
- Add New Feature : In the case of future upgrades to add new functions to the receiver (payment required)
 Information regarding the "Firmware Update" function and "Add
- Information regarding the "Firmware Update" function and "Add New Feature" will be announced on the DENON web site each time related plans are defined.

• Even with a broadband connection to the Internet, approximately 1 hour is required for the updating/upgrading procedure to be completed.

Once updating/upgrading starts, normal operations on the AVR-5308CI cannot be performed until updating/upgrading is completed.

Furthermore, updating/upgrading the firmware may reset the backup data for the parameters, etc., set for the AVR-5308CI.

• When updating/upgrading the firmware, we recommend using wired connections (Ethernet cable).

Language

This sets the language used on the display



Menu tree

Manual Setup

Language

[Selectable items] English Français

Operating from the main unit

- * The GUI menu is not displayed when performing this setting.
- (1) Press and hold the **AUDIO DELAY** and **RETURN** buttons for at least 3 seconds.
 - "Video Format" appears on the display.
- (2) Use the $\Delta \nabla$ button to set "GUI Language".
- (3) Use the $\triangleleft \triangleright$ button to make the setting.
- (4) Press the ENTER, MENU or RETURN button to complete the setting.

*6	UΙ	L	a	ns	aυ	as	le	
<	Е	NG	L	19	5Н		\geq	

Source Select

Use this procedure to select the input source and make the settings related to playing input sources.

Input Source Selection

) Menu tree 🔵	
Source Select	
TUNER	\mathcal{D}
PHONO	\mathcal{D}
CD	\mathcal{D}
DVD	\mathcal{D}
HDP	\mathcal{D}
TV/CBL	\mathcal{D}
SAT	\mathcal{D}
VCR	\mathcal{D}
DVR-1	\mathcal{D}
DVR-2	\mathcal{D}
V.AUX	\mathcal{D}
NET/USB	\mathcal{D}
- XM	5
HD Radio	\mathcal{D}

$-\beta_{\rm T}$ Operating from the main unit or main remote control unit

[Operation on the main unit]

Turn the SOURCE SELECT knob.

* If "Rec Select" or "Video Select" is selected, press the SOURCE button before turning the **SOURCE SELECT** knob.

[Operation on the main remote control unit] Press the SOURCE SELECT button.

The desired input source can be selected directly.





(Main remote control unit)

GUI

- To operate the AVR-5308CI using the main remote control unit, set the remote control unit to the AMP mode (2) page 76 "Remote Control Unit Operations").
- Pressing the DVD/HDP button and the VCR/DVR button on the main remote control will switch between the following. DVD/HDP:

DVD + HDP

VCR/DVR :

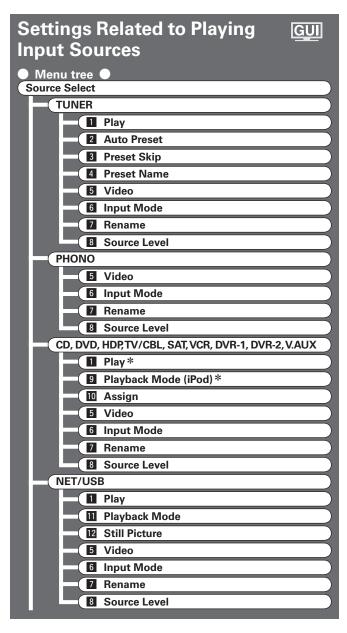
→ VCR — → DVR-1 — → DVR-2 -

Getting Started

Connections

Setup

Playback



Source Select
XM
Play
Preset Skip
Antenna Aiming
5 Video
Input Mode
Rename
Source Level
HD Radio
Play
Auto Preset
Preset Skip
Preset Name
J Video
Input Mode
Rename
Source Level
: "Play" and "Playback Mode (iPod)" are displayed for input source for which "iPod dock" is assigned.
1 Play
The playback screen is displayed

		do not w		uispia	у.	
[Input source]	TUNER	HD Rad	io	(M		
[Selectable items	All	12	3 4	5	6	7
[Selectable items	5] ON	Skip				
When set to "All" to	"Skin" it is r	ossihle t	o skin	ontire	nrese	at m
blocks (A to G).	οκιρ, π ιο ρ	0331010 1	o skip	Sintino	prese	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
4 Preset N	amo					
Assign name to a	preset mem		in he ir	nut		
Assign name to a Names containing	preset mem		ın be ir	iput.		
	preset mem		ın be ir	iput.		
Names containing	preset mem up to 8 char	acters ca	in be ir	iput.		
Names containing	preset mem up to 8 char	acters ca		iput.		
A1 ~ G8 Select the preset m [Input source]	preset mem up to 8 char emory numb	er. HD Rad		iput.	_	
A1 ~ G8 Select the preset mo [Input source] [Characters that	preset mem up to 8 char emory numb	er. HD Rad ut]	io		@[\]	

Set the preset memories that you do not want to display

3 Preset Skip

1 Play
The playback screen is displayed.
[Input source]

TUNER NET/USB XM HD Radio iPod

2 Auto Preset

Use the auto preset function to program radio stations.

[Input source]

TUNER HD Radio

[Selectable items] Start

If an FM station cannot be preset automatically, select the desired station by tuning it in manually, then preset it manually.

Getting Started Connections

Setup

Playback Remote Control Multi-Zone Information Troubleshooting

5 Video

Getting Started

Connections

Setup

Playback

Remote Control

Multi-Zone

Information

Troubleshooting

Setting the video source.

Video Select

Switch video input source while listening to audio signal.

[Selectable items]

DVD HDP TV/CBL SAT VCR DVR-1 DVR-2 V.AUX

SOURCE

Operating from the main unit

Press the **VIDEO SELECT** button, then turn the **SOURCE SELECT** knob until the desired picture appears.

* To cancel, press the main unit's VIDEO SELECT button, then turn the main unit's **SOURCE SELECT** knob and select "SOURCE"

- It is not possible to select HDMI input signals.
- When playing HDMI video input signals, the analog video signal of another input source cannot be selected for the HDMI video output.
- Input sources for which "Delete" is selected at "Source Delete" cannot be selected.

Video Convert

Automatically convert video input signal to monitor output format.

[Input source]



[Selectable items] ON

- For optimum video performance, THX recommends that you set the conversion mode to "OFF" to use video signals pass through system without up conversion.
- **Example:** The video input signals from the component video can be enjoyed through the video output signals from the component video.
- When a non-standard video signal from a game machine or some other source is input, the video conversion function might not operate. If this happens, please set the conversion mode to "OFF".

i/p Scaler

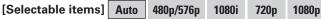
Make settings for i/p scaler function.

[Selectable items] A to H A to H & H to H OFF

- This can not be set when "Video Convert" is set to "OFF".
- The "A to H & H to H" can be set to the input source assigned to the HDMI input connector.
- "A to H & H to H" setting:
- Deep color (10 bit/12 bit) signals are converted into 8-bit signals.
- The i/p scaler function does not work if xvYCC or computer's resolution signals are input.

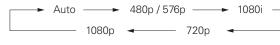
Resolution

Make settings for resolution of HDMI video output signal.



Operating from the main unit

Press the **SCALE** button.



- This can be set when "i/p Scaler" is set to anything other than "OFF"
- When the "i/p Scaler" is set to "A to H & H to H", the resolutions can be setup to the analog video input signal and HDMI input signal.

Progressive Mode

Select optimum progressive mode for video material.

[Selectable items] Auto Video1 Video2

This can be set when "i/p Scaler" is set to anything other than "OFF".

Aspect

This sets the aspect ratio when outputting 480i/576i or 480p/576p input signals from the HDMI output connector.

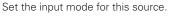
[Selectable items] Full Normal

This can be set when "i/p Scaler" is set to anything other than "OFF".

6 Input Mode

Make input mode and decode mode settings for this source. The selectable input modes depend on the input source and "Assign" setting (P page 46, 47).

Input Mode



[Input source]	TUNER	PHONO	iPod)
[Selectable items]	Analog	EXT. IN	
[Input source]	NET/USB	XM HI	D Radio

[Selectable items] Auto EXT. IN

[Input source]



[Selectable items]

```
Auto HDMI Digital Analog EXT. IN
```

- When a digital signal is properly input, the "DG," indicator lights on the display. If the "DIG," indicator does not light, check the digital input connector assignment and the connections.
- The surround mode cannot be set if the input mode is set to "EXT. IN".

• Operating from the main unit or main remote control unit

Press the **INPUT MODE** button on the main unit or the **INPUT** button on the main remote control unit.



- *1: This can be selected for input sources for which the GUI menu "Assign" setting is set to "HDMI" (1 page 46). Excluding CD.
- *2: This can be selected for input sources for which the GUI menu "Assign" setting is set to "Digital" (Pr page 46).

Decode Mode

Set the decode mode for this source.

[Input source]



[Selectable items] Auto PCM DTS

- This can be selected for input sources for which the GUI menu "Assign" setting is set to "HDMI" or "Digital".
- Only set "PCM" and "DTS" when playing the respective signals.

7 Rename

Change the display name for this source. Names containing up to 8 characters can be input.

[Characters that can be input]

A ~ Z	a~z	0~9	! " # % & '() * +,/:; < = > ? @ [\] (space)
L	u ··· 2	0	

8 Source Level

Corrects the playback level of the selected input source's audio input.

[Variable range] -12dB ~ 0dB ~ +12dB

For input sources for which "HDMI" or "Digital" are set at the GUI menu "Assign" setting, the analog input level and digital input level can be set separately.

9 Playback Mode (iPod)

Make settings for "iPod" playback.

Repeat

Make settings for repeat mode.

[Input source]



OFF

[Selectable items] All One

Shuffle

Make settings for shuffle mode.

[Input source]



V.AUX

[Selectable items] Songs Albums OFF

This can be selected for input sources for which "Assign" is assigned at the "iPod dock" setting.

10 Assign

Assign input sources to input connectors.

HDMI

Select HDMI connector to assign to this source.

[Input source]

DVD HDP TV/CBL SAT VCR DVR-1 DVR-2 V							V.AUX
[Selectable items]	1	2	3	4	5	6	None
Input source	DV	D	HD	Р	TV/C	BL	SAT
Default setting	HDN	/11	HDN	112	Nor	ne	HDMI3
Input source	VC	R	DVR	-1	DVF	-2	V.AUX
Default setting	HDN	114	HDN	115	HDN	/116	None

- With HDMI, the video and audio signals are transferred simultaneously. To play the video signal assigned at "HDMI" combined with the audio signal assigned at "Digital", select "Digital" at the GUI menu "Source Select" "Input Mode" (@ page 45).
- When the AVR-5308Cl and monitor are connected with an HDMI cable, if the monitor is not compatible with HDMI audio signal playback, only the video signals are output to the monitor.
- The audio signals input from the analog, digital and EXT. IN connectors are not output to the monitor.

NOTE

P

This cannot be set for input sources for which "iPod dock" is assigned.

Digital

Select digital input connector to assign to this source.

[Input source]

CD	DVD	HDP	TV/CBL	SAT	VCR	DVR-1	DVR-2
V.AUX	x						

[Selectable items]

Coaxial1 ~ 4 Optical1 ~ 5 DENON LINK * BNC1/2 No
--

*: When a DENON DVD player and the DENON LINK have been connected, be sure to make a setting to "DENON LINK".

Input source	CD	DVD	HDP	TV/CBL	SAT
Default setting	Coaxial 4	Coaxial 1	Coaxial 2	Optical 1	Coaxial 3
Input source	VCR	DVR-1	DVR-2	V.AUX	
Default setting	Optical 4	Optical 2	Optical 3	Optical 5	

NOTE

This cannot be set for input sources for which "iPod dock" is assigned.

Component

Select component video input to assign to this source.

[Input source]

DVD HDP TV/CBL	. SAT	VCR	DVR-1	DVR-2	V.AUX
[Selectable items]	1~5-	RCA	6 – BNC	None	

Input source	DVD	HDP	TV/CBL	SAT
Default setting	1 – RCA	2 – RCA	3 – RCA	4 – RCA
Input source	VCR	DVR-1	DVR-2	V.AUX
Default setting	None	5 – RCA	None	None

NOTE

This cannot be set for input sources for which "iPod dock" is assigned.

iPod dock

Assign Control Dock for iPod to this source.

[Input source]

CD DVD HDP TV/CBL SAT VCR DVR-1 DVR-2 V.AUX [Selectable items] Assign None

- With the default settings, the Control Dock for iPod can be used connected to the VCR (iPod) connector.
- Even if "iPod dock" is set to "Assign," if the set is not connected to a Control dock for iPod, the input source can be used as the normal input source.

11 Playback Mode

Make settings for "NET/USB" playback.

[Input source] NET/USB

USB Select

Select USB port to use.

[Selectable items] Front Rear

Match the port to be used and the setting.

Repeat

Make settings for repeat mode.



Random

Make random mode settings.

[Selectable items] ON OFF

Direct Play

Set the folder to be played using the $\ensuremath{\textbf{DIRECT PLAY}}$ button on the sub remote control unit.

[Selectable items] Favorites All Music

Image: Still Picture Make settings for still picture (JPEG) playback. [Input source] NET/USB Slide Show Make slideshow settings. [Selectable items] ON OFF Interval Set the playback time per image. [Variable range] 5s Solution Solution

13 Antenna Aiming

Adjust the XM radio reception sensitivity.

[Input source] XM

Satellite

Indicate satellite signal strength.

Terrestrial

Indicate terrestrial signal strength.

Display	Condition					
	Signal strength is strong					
	Signal strength is good					
	Signal strength is marginal					
	Signal strength is weak					
	No signal					

Getting Started

Surround Mode



HOME THX CINEMA

THX surround mode to recreate authentic movie soundtracks.

Surround Playback of 2-channel Sources							
ns]							
PLII CINEMA	Pro Logic	NEO:6 CINEMA					
r	ns]						

Playing Multi-channel Sources (Dolby Digital, DTS, etc.)

[Selectable items]

HOME THX CINEMA

This mode is for decoding the input signals according to their format and playing THX surround sound.

The display when the HOME THX CINEMA mode is selected depends on the input signal and surround back output playback mode.

Ir	nput signal	Display
	DOLBY DIGITAL	THX SURROUND EX
Dolby	(other than 2ch) /	THX Ultra2 Cinema
Digital	DOLBY DIGITAL EX	THX Music Mode
Source	DOLBY DIGITAL Plus	THX Games Mode
Source	DOLBY TrueHD	THX Cinema
	DOLDI IIdeliD	PLIIx C + THX
	DTS (5.1ch) /	ES MTRX6.1 + THX (*1)
	DTS-ES Discrete 6.1 /	ES DSCRT6.1 + THX (*2)
DTS	DTS-ES Matrix 6.1 /	THX Ultra2 Cinema
Surround	DTS 96/24 /	THX Music Mode
Source	DTS-HD High	THX Games Mode
	Resolution Audio	THX Cinema
	DTS-HD Master Audio	PLIIx C + THX
		THX SURROUND EX
		THX Ultra2 Cinema
DVD-	PCM (multi ch) /	THX Music Mode
Audio,	DSD (multi ch)	THX Games Mode
SACD		PLIIx C + THX
		M CH 5.1 + THX
		M CH 7.1 + THX

*1: This is displayed when the input signal is "DTS-ES Matrix 6.1" and the AVR-5308CI's "AFDM" setting is set to "ON".

*2: This is displayed when the input signal is "DTS-ES Discrete 6.1".

For details, see page 98.

$-\frac{2}{2}$ Operating from the main unit or main remote control unit

Press the HOME THX CINEMA button on the main unit or the THX button on the main remote control unit.

Standard Playback

This is the standard mode for enjoying surround sound according to the program source.

To select these surround modes pressing the STANDARD button on the main unit or press the STD button on the main remote control unit. The mode switches each time the button is pressed.

Surround P	layl	back of 2-	channel S	Sources		
When using a sur	□When using a surround back speaker					
[Selectable ite	ms]	DOLBY PLIIx	DTS NEO:6	neural		
G When not using a	surrc	ound back speak	ker			
[Selectable ite	ms]	DOLBY PLII	DTS NEO:6	neural		
DOLBY PLIIx or DOLBY PLI I	:The signals are decoded in DOLBY PLIIx DOLBY PLII for playback.			OLBY PLIIx or		
Cinema	: This mode is suited for movie sources.					
	: This mode is suited for music sources.			urces.		
	: This mode is suited for games.					
Pro Logic	: This is the Pro Logic playback mode. This can be selected when playing with a DOLBY PLII decoder. When this mode is selected, "DOLBY PL" is displayed.					
Charating from the main unit						



Operating from the main unit

The "Cinema", "Music", or "Game" modes can be directly selected with the **CINEMA**. **MUSIC** or **GAME** button on the main unit.

DTS	NEO:6	:The signals are decoded in DTS NEO:6 for
	Cinema	playback. : This mode is suited for movie sources.
	Music	: This mode is suited for music sources.



The "Cinema" or "Music" modes can be directly selected with the CINEMA or MUSIC button on the main unit.

neural

: It is possible to play analog input signals and PCM (2-channel, 48kHz or less) in the surround mode.

This is the optimum mode for playing sources recorded in XM HD Surround (12 page 95).

Select the "Cinema", "Music", "Game" and "Pro Logic" modes at GUI menu "Parameter" - "Audio" - "Surround Parameters" - "Mode" (Cr page 50).

Getting Started Connections

Setup

Playback

Remote Control

Multi-Zone

Information

Troubleshooting

Playing Multi-channel Sources (Dolby Digital, DTS, etc.)

[Selectable items]

STANDARD

This mode is for decoding the input signals according to their format and playing surround sound.

The display when the STANDARD mode is selected depends on the input signal and surround back output playback mode.

Input signal		Display
Dolby Digital Source	DOLBY DIGITAL (other than 2ch) / DOLBY DIGITAL EX DOLBY DIGITAL Plus DOLBY TrueHD	DOLBY DIGITAL DOLBY DIGITAL EX DOLBY DIGITAL+PLIIx CINEMA DOLBY DIGITAL+PLIIx MUSIC DOLBY DIGITAL + DOLBY TrueHD
DTS Surround Source	DTS (5.1ch) / DTS-ES Discrete 6.1 / DTS-ES Matrix 6.1 / DTS 96/24	DOLDT HIGHD DTS SURROUND DTS+PLIIx CINEMA DTS+PLIIx MUSIC DTS+NEO:6 DTS ES MTRX6.1 (* 1) DTS ES DSCRT6.1 (* 2) DTS 96/24 (* 3)
DTS-HD High Resolution Audio DTS-HD Master Audio		DTS-HD HI RES DTS-HD MSTR
DVD- Audio, SACD	PCM (multi ch) / DSD (multi ch)	MULTI CH IN MULTI IN+PLIIx CINEMA MULTI IN+PLIIx MUSIC MULTI CH IN 7.1

* 1: This is displayed when the input signal is "DTS-ES Matrix 6.1" and the AVR-5308Cl's "AFDM" setting is set to "ON".
* 2: This is displayed when the input signal is "DTS-ES Discrete 6.1".

*3: This is displayed when the input signal is "DTS 96/24".

For details, see page 98, 99.

Dolby Headphone

The Dolby Headphone mode is set when headphones are connected to the **PHONES** jack while in the STANDARD (DOLBY/ DTS SURROUND) mode.

[Selectable items] DOLBY HEADPHONE

When RECOUT mode is set to "SOURCE," with this amplifier signals encoded in the Dolby Headphone mode can be output from the recording output terminals and recorded on another recorder (12) page 72).

DSP Simulation Playback

The desired mode according to the program source and viewing situation can be selected from among 9 DENON original surround modes.

The surround parameters can be adjusted (27 page 96, 97) to achieve an even more realistic, powerful sound field.

[Selectable items]

- *1 : This mode is for enjoying stereo sound from 7CH STEREO all speakers. **WIDE SCREEN** : This mode is for enjoying the atmosphere of viewing a movie on a large screen. **SUPER STADIUM** This mode is suited for viewing sports programs. **ROCK ARENA** This mode is for enjoying the atmosphere of a live concert in an arena. **JAZZ CLUB** This mode is for enjoying the atmosphere of a live concert in a jazz club. CLASSIC CONCERT : This mode is for appreciating classical concert programs. **MONO MOVIE** *2: This mode is for playing monaural movie sources with surround sound. **VIDEO GAME** This mode is suited for achieving surround sound with video games. MATRIX This mode lets you add a sense of expansion
- MATRIX
 - : This mode lets you add a sense of expansion to stereo music sources.
- * 1: Can also be set by pressing the **7CH STEREO** button on the main unit. However, the GUI menu is not displayed.
- 2: When playing sources recorded in monaural in the MONO MOVIE mode, the sound will be off balance with a single channel (left or right), so input to both channels.

- Press the DSP SIMULATION button on the main unit or SIMU button on the main remote control unit to switch the surround mode. The mode switches each time the button is pressed.
- Depending on the program source being played, it may not be possible to achieve a satisfactory surround effect. In this case, try other modes to achieve a sound field suited to your tastes.

Stereo Playback

[Selectable items]

STEREO

This is the mode for playing in stereo. The tone can be adjusted. Sound is output from the front left and right speakers and subwoofer.

When the main unit's **DIRECT/STERE0** button or the main remote control unit's **D/ST** button is pressed, DIRECT mode can be switched to STEREO mode.

Getting Started

Connections

Setup

Playback

Direct Playback

[Selectable items]

DIRECT

In this mode the signals bypass the tone control circuitry for high quality sound.

The display when the DIRECT mode is selected depends on the input signal.

For multi-channel sources, the display depends on the surround back output's play mode.

Input signal	Display	
Analog signal /		
PCM (2ch) /		
Dolby Digital source /	DIRECT	
DTS source /		
Other 2-channel digital signals		
DSD (2ch)	DSD DIRECT (*)	
	MULTI CH DIRECT	
PCM (multi ch)	M DIRECT + PLIIx CINEMA	
	M DIRECT + PLIIx MUSIC	
	M DIRECT 7.1	
DSD (multi ch)	DSD MULTI DIRECT (*)	

*: When DSD signals are converted to PCM signals as set by the audio parameters and speaker settings, "DIRECT" or "MULTI CH DIRECT" is displayed.



For details, see page 99.

Playback in the PURE DIRECT Mode

This is the mode that recreates the original sound most faithfully, providing extremely high quality sound.

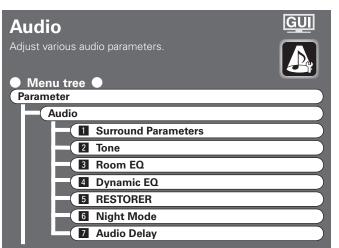
Press the **PURE DIRECT** button on the main unit or the **PURE** button on the main remote control unit.

- To cancel, press the **PURE DIRECT** button on the main unit or the **PURE** button on the main remote control unit.
- When in the PURE DIRECT mode, the GUI screen is not displayed and the display on the main unit is turned off.
- If the HDMI input connector is selected, video outputs are output in the PURE DIRECT mode.
- The channel level and surround parameters in the PURE DIRECT mode are the same as in the DIRECT mode.





Parameters can be called out directly by pressing the **PARA** button on the main remote control unit.



1 Surround Parameters

Adjust surround sound parameters.

The adjustable parameters differ for the different surround modes (127 page 96, 97).

Mode

Select the mode according to the playback source.

□ In the PLIIx or PLII mode



 $\boldsymbol{*}\colon$ Can be selected in the PLII mode.

In the DTS NEO:6 mode

[Selectable items] Cinema Music

ø

The "Music" mode is also effective for movie sources including a lot of stereo music.

Getting Started

□ In the THX mode (for 2-channel sources)

[Selectable items]

Surround Back ON Surround Back OFF THX Games Mode

PLIIx Cinema + THX THX Ultra2 Cinema THX Music Mode

Select this when playing analog, PCM or other 2 channel sources. The signals are converted into multichannel signals using the decoders shown below and played in the Dolby Headphone mode.

□ In the THX mode (for 2-channel sources)

[Selectable items]

PLIIX CINEMA PLII CINEMA Pro Logic NEO:6 CINEMA

□ In the DOLBY HEADPHONE mode

[Selectable items]

PLII CINEMA PLII MUSIC	NEO:6 CINEMA	NEO:6 MUSIC
------------------------	--------------	-------------

OFF

Cinema EQ

Soften the treble range of movie soundtracks for better understanding.

[Selectable items] ON OFF

DRC

Compress dynamic range (difference between loud and soft sounds).

[Selectable items] Auto Low Middle High OFF

P

This can be set in the Dolby TrueHD mode.

D.COMP

Compress dynamic range (difference between loud and soft sounds).

[Selectable items] OFF Low Middle High

P

When playing DTS sources, this is only displayed for compatible software.

LFE

Adjust the low-frequency effects level (LFE).

[Variable range] -10dB ~ 0dB

For proper playback of the different program sources, we recommend setting to the values below.

Assign center channel signal to front left and right channels for wider sound.

[Variable range] 0.0 ~ 0.3 1.0

Panorama

Assign front L/R signal also to surround channels, for wider sound.

[Selectable items] ON OFF

Dimension

Shift sound image center to front or rear, to adjust playback balance.

[Variable range] 0 3 6

Center Width

Assign center channel signal to front left and right channels for wider sound.



Delay Time

Adjust delay time to control sound stage size.

[Variable range]	0 ms	~	30 ms	~	300 ms
------------------	------	---	-------	---	--------

Effect

Switch effect signal for multi-surround speakers on and off.

[Selectable	items]	ON	OF

Effect Level

Adjust effect signal level.

[Variable range] 10 15 1

Ô

Set to a lower level if the positioning and sense of phase of the surround signals seems unnatural.

Room Size

Determine size of acoustic environment.

[Selectable items]

Small Medium small Medium Medium large Large

NOTE

"Boom Size" does not indicate the size of the room in which sources are played.

□ In the THX mode (for Multi-channel sources) [Selectable items] THX Surr. EX ES DSCRT ES MTRX 7.1+THX THX Games Mode Surround Back OFF Decoder

• Dolby Digital sources: "0 dB"

- DTS movie sources: "0 dB"
- DTS music sources: "-10 dB"

Center Image

Getting Started

AFDM

Auto-select surround mode by source.

This function only works for software containing a special identification signal.

If the software being played is recorded in Dolby Digital EX or DTS-ES, it is played in 6.1-channels. If not, it is played in 5.1-channels.

[Selectable items] ON OFF

Example : Playing Dolby Digital software (with EX flag)

- When "AFDM" is set to "ON", the surround mode is automatically set to the DOLBY D + PLIIx C mode.
- To play in the DOLBY DIGITAL EX mode, set "AFDM" to "OFF" and "SB CH Out" to "MTRX ON".

()

Some Dolby Digital EX sources do not include EX flags. If the playback mode does not switch automatically even when "AFDM" is set to "ON" set "SB CH Out" to "MTRX ON" or "PLIIx CINEMA".

SB CH Out (for Multi-channel sources)

Select playback mode for surround back channels.

[Selectable items]

NON MTRX MTRX ON PLIIX CINEMA *1 PLIIX MUSIC *2 ES MTRX *3 ES DSCRT *4 DSCRT ON OFF

- *1: This can be selected when "Surround Back" is set to "2spkrs' at the GUI menu "Manual Setup" - "Speaker Setup" - "Speaker Configuration" setting (P page 30).
- *2: This can be selected when "Surround Back" is set to "2spkrs" or "1spkr" at the GUI menu "Manual Setup" - "Speaker Setup" -"Speaker Configuration" setting.
- *3: This can be selected when playing DTS sources.
- *4: This can be selected when plaving DTS sources including a discrete 6.1-channel signal identification signal.

OFF

SB CH Out (for 2-channel sources)

Determine whether to use surround back speakers.

[Selectable items] ON

Subwoofer Att.

Attenuate subwoofer level when using EXT. IN mode.

[Selectable items] ON

Set this to "ON" if the subwoofer channel level seems too high when playing Super Audio CD.

OFF

Subwoofer

Turn subwoofer output on and off.

[Selectable items] ON OFF

Default

Resets the settings to the default values.

2 Tone

Adjust the tonal quality of the sound.

Tone Defeat

Turn tone adjustments off.

[Selectable items] ON OFF

The tone cannot be adjusted when in the DIRECT. PURE DIRECT and HOME THX CINEMA mode.

Bass

Adjust bass for all channels together.

[Variable range] -6dB ~ +6dB

Treble

Adjust treble for all channels together.

[Variable range] -6dB ~ +6dB

"Bass" and "Treble" can be set when "Tone Defeat" is set to "OFF"

Front

Adjust each front channel tone.

[Selectable items] Bass Treble [Variable range] -6dB ~ +6dB

Center

Adjust each center channel tone.

[Selectable items]	Bass	Treble
[Variable range]	-6dB ~ +	6dB

Surround

Adjust each surround channel tone.

Bass Treble

 $-6dB \sim +6dB$

Adjust each surround back channel tone.

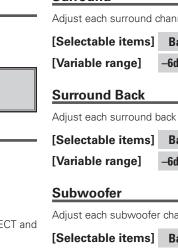
[Selectable items]	Bass	Treble
[Variable range]	-6dB ~ +	6dB

Adjust each subwoofer channel tone.

[Selectable items] Bass

[Variable range] $-6dB \sim +6dB$

This can be set individually for the separate surround mode other than PURE DIRECT, DIRECT and Home THX Cinema mode.



3 Room EQ

Select room equalizer for current environment.

[Selectable items] Audyssey Optimize frequency response of all speakers. Audyssey Byp. L/R : Optimize frequency response of speakers except front L and R speakers. Audyssey Flat : Optimize frequency response of all speakers to <u>í</u> flat response. Apply frequency response set with "Manual Manual EQ" (CP page 35). OFF : Turn equalizer off. $-\beta$ Operating from the main unit or main remote control unit

Press the **ROOM EQ** button on the main unit or the **EQ** button on the main remote control.

-- OFF ----- Audyssey ----- Audyssey Byp. L/R ----——— Manual 🖛 Audyssey Flat 🖛

When "Audyssey" is selected, "MULTEOXT" lights.

When "Audyssey Byp. L/R" or "Audyssey Flat" is selected, or when the auto setup measuring results have changed, " MUDYSSEY " lights.

- "Audyssey", "Audyssey Byp. L/R" and "Audyssey Flat" can be selected after the auto setup procedure has been performed.
- If the settings of the speakers for which "None" has been determined at "Auto Setup" are changed, "Audyssey", "Audyssey Byp. L/R" and "Audyssey Flat" cannot be selected and measurements have to be taken again to include the newly-added speakers.
- When using headphones, "Room EQ" is always set to "OFF".

4 Dynamic EQ

Make Dynamic EQ settings.

[Selectable items] ON OFF

Operating from the main unit Press the **DYNAMIC EO** button

• "Dynamic EQ" is displayed when selecting "Audyssey", "Audyssey Flat" or "Audyssey Byp.L/R" in the "Room EQ" setup. When set to "ON", the "NUDYSSEY " indicator is lit.

• When the audio setup measuring results have changed, " AUDYSSEY " lights.

5 RESTORER

This function restores compressed audio signals to how they were before compression and corrects the sense of volume of the bass and treble to obtain richer playback sound.

[Selectable items]

OFF

Mode1 (RESTORER 64)

Mode2 (RESTORER 96)

Mode3 (RESTORER HQ)

The default setting for "NET/USB" and "iPod" is "Mode3". All others are set to "OFF".

Operating from the main unit or main remote $-\beta$ control unit

During playback, press the **RESTORER** button on the main unit or the **RSTR** button on the main remote control unit.

When set to something other than "OFF," "RESTORER" is displayed.



About the RESTORER function

- Such compressed audio formats as MP3, WMA (Windows Media) Audio) and MPEG-4 AAC reduce the amount of data by eliminating signal components that are hard for the human ear to hear. The RESTORER function generates the signals eliminated upon compression, restoring the sound to conditions near those of the original sound before compression. It also corrects the sense of volume of the bass to obtain richer sound with compressed audio signals.
- This is displayed on the GUI menu and can be set when the input source is set to "XM", "HD Radio" or "NET/USB", or when analog signals (including AM/FM signals) or PCM signals (fs = 44.1/48 kHz) are input.

6 Night Mode Optimized setting for late-night listening.			
[Selectable items] OFF Low Middle High			
Operating from the main unit or main remote control unit			
Press the NIGHT button on the main unit or the NGT button on the main remote control unit. The " NIGHT " indicator lights when "Low", "Middle" or "High" is selected.			



7 Audio Delay Compensate for mismatched timing between video and audio.	2 Brightness Adjust picture brightness.	
Delay audio. This sets the delay time for audio signals.	[Variable range] 0 ~ +12	Information
[Variable range] 0 ms ~ 200 ms	r	
	3 Chroma Level	Status <u>GUI</u>
\frown Operating from the main unit or the main	Adjust picture chroma level (saturation).	
remote control unit	[Variable range] –6 ~ 0 ~ +6	Shows information about current settings.
* The GUI menu is not displayed when carrying out this setting.		● Menu tree ●
 Press the AUDIO DELAY button on the main unit or A. DL button on the main remote control unit. 		Information
(2) Use the \triangleleft \triangleright button to set.	4 Hue	Status
ملحی ا	Adjust color hue.	MAIN ZONE
• This cannot be adjusted when playing in the EXT. IN, DIRECT or STEREO mode (with "Crossover Frequency" set to "FIXED-THX-," "Front" set to "Large," "Tone Defeat" to "ON" and "Room EQ" to	[Variable range] –6 ~ 0 ~ +6	ZONE2/3/4
"OFF").		1 MAIN ZONE
• The adjustment range is 0 to 100 ms when the Auto Lipsync Correction function is activated.	5 DNR Reduces the overall level of noise on the picture.	Shows information about settings for MAIN ZONE. The items displayed differ according to the input source.
		[Items to be checked]
Picture Adjust	[Selectable items] OFF Low Middle High	Select Source Name Surround Mode Input Mode Room EQ
Adjust the picture quality.		Dynamic EQ Video Select i/p Scaler Source Level
	6 Enhancer	Rec Select Night Mode RESTORER etc.
Menu tree	Enhances picture.	
Parameter		
Picture Adjust	[Variable range] 0 ~ +12	2 ZONE2/3/4
Contrast		Shows information about settings for multi-zone.
Image: Second	7 Sharpness	[Items to be checked]
4 Hue	Adjusts picture sharpness.	Power Select Source Volume Level
D DNR		
6 Enhancer	[Variable range] –6 ~ 0 ~ +6	
Sharpness	¢	

• When the input signal is 1080p the "Picture Adjust" setting will be ineffective.

1 Contrast

Adjust picture contrast.

[Variable range] -6 ~

0

+6 ~

- Adjusting the "Contrast", "Brightness", "Chroma Level" and "Hue" settings does not affect the HDMI input signal.
- "Hue" can be adjusted for composite video and S-Video signals.
- The adjustment values are stored for the individual input sources.
- "DNR", "Enhancer", and "Sharpness" are each effective with HDMI output. However, they are ineffective with 480i/576i output.

Shows informat	nput Signal
• • • • • • • • •	: The currently set surround mode is displayed.
Signal	: The input signal type is displayed.
fs	: The input signal's sampling frequency is displayed.
Format	: The number of channels in the input signal (front, surround, LFE) is displayed.
Offset	: The dialogue normalization correction value is displayed.
Flag	: "MATRIX" is displayed if the input signal has undergone matrix processing, "DISCRETE" if the input signal has undergone discrete processing.
Dia	logue normalization function
which is used to level so the us between Dolby which has been a brief message	alization (Dial Norm) is a feature of Dolby Digital, b keep the programs at the same average listening er does not have to change the volume control Digital programs. When playing back software encoded in Dolby Digital, sometimes you may see e in the front panel display which will read "Dial. being a numeric value). The display is showing how

the program level relates with THX calibration level. If you want to play the program at calibrated theatrical levels, you may wish to adjust the volume. For example, if you see the following message: "Dial. Norm + 4 dB" in the front panel display, to keep the overall output level at THX calibrated loudness, just turn down the volume control by 4 dB. However, unlike a movie theater where the playback loudness is preset, you can choose your preferred volume setting for best enjoyment.

Dial.Norm Offset + 4dB

HDMI Information Shows information about HDMI input/output signals and monitor. Menu tree Information HDMI Information I Signal Information 2 Monitor1 3 Monitor2	Ouick Select Shows information about Menu tree Information Quick Select Quick Select Quick Select Quick Select
1 Signal Information	[Items to be checked]
The HDMI input/output signal information is displayed.	Select Source Input N
· · · · · · · · · · · · · · · · · · ·	Auto Surround Mode se
[Items to be checked] Resolution Color Space Pixel Depth	For instructions on storin
2 Monitor1 The HDMI monitor 1 information is displayed.	74.
3 Monitor2	Preset Statio
The HDMI monitor 2 information is displayed.	Shows information about
[Items to be checked] Interface Supported resol. Auto Surround Mode Image: Comparison of the surround mode settings. Image: Comparison of the last memory function was used for the different input signal types is displayed. Image: Comparison of the different input signal types is displayed. • Menu tree •	Menu tree Information Preset Station A B C D E F
Information	G
Auto Surround Mode	[Input source]
[Items to be checked]	[Items to be checked]
Analog/PCM 2ch Digital 2ch Digital 5.1ch Multi ch	

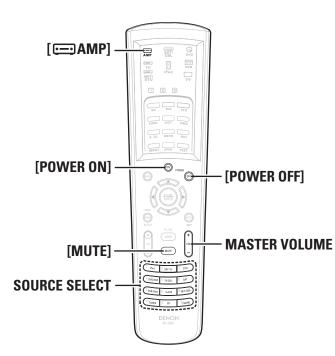
rmation about quick select settings. tree 🔵 on ick Select Quick Select 1 Quick Select 2 **Quick Select 3** e checked] ce Input Mode Room EQ Ind Mode setting Volume Level ons on storing settings at Quick Select 1 to 3, see page GUI Station tree 🔵 on set Station Α В С D E F G rce] TUNER XM HD Radio NET/USB e checked] A1 ~ G8

GUI

When the **STATUS** button on the main unit is pressed, the set's status can be checked on the display.

SOURCE SELECT <PHONES> MASTER VOLUME

<ON/STANDBY> <POWER>



About the button names in these explanations

- < > : Buttons on the main unit
- [] : Buttons on the remote control unit

Button name only:

Buttons on the main unit and remote control unit

Playback

Preparations

Turning the Power On

Press <**POWER**>.

The power indicator lights red and the power is set to the standby mode.

Press <ON/STANDBY> or [POWER ON].

The power indicator flashes green and the power turns on.

To operate the AVR-5308CI using the main remote control unit, set the remote control unit to the AMP mode (B page 76 "Remote Control Unit Operations").

Turning the Power Off

①Press **<ON/STANDBY>** or **[POWER OFF]**.

The power is set to the standby mode.

2 Press <POWER>.

The power indicator turns off, and so does the power.

NOTE

Power continues to be supplied to some of the circuitry even when the power is in the standby mode. When leaving home for long periods of time or when traveling, either press **<POWER>** to turn off the power, or unplug the power cord from the power outlet.

Operations During Playback

Adjusting the Master Volume

Either turn <MASTER VOLUME> or press [MASTER VOLUME].

Turning Off the Sound Temporarily (Muting)

Press [MUTE].

To cancel, press **[MUTE]** again. Muting can also be canceled by adjusting the master volume.

Listening with Headphones

Plug the headphones into <PHONES>. The sound from the speakers and pre-out connectors is automatically cut.

NOTE

Be careful not to set the volume too high when using headphones.

Playing Video and Audio Equipment

Basic Operation

Prepare the equipment.

①Load the DVD, CD or other software in the player.
(12) See the operating instructions of the respective devices.)
② To play a video device, switch the monitor input.
(12) See the monitor's operating instructions.)

2 To operate using the main remote control unit, set the remote control unit to the AMP mode.

(😰 page 76 "Remote Control Unit Operations")

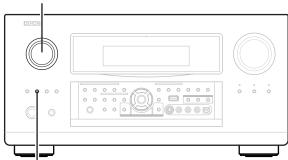
3 Use SOURCE SELECT to select the input source.

GUI : "Source Select" (P page 43, 44)

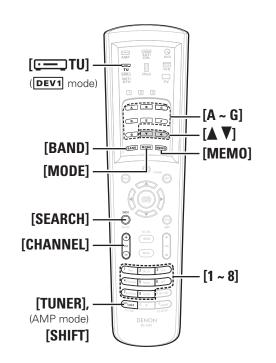
Start playback.

(See the operating instructions of the respective devices.)

<SOURCE SELECT>



<TUNING PRESET>



About the button names in these explanations

- < > : Buttons on the main unit
- [] : Buttons on the remote control unit

Button name only:

Buttons on the main unit and remote control unit

Listening to FM/AM Broadcasts

Basic Operation

- Either turn **<SOURCE SELECT>** or press **[TUNER]** (AMP mode) to select "TUNER".
- (GUI : "Source Select" (🖅 page 43, 44)
- **2** To operate using the main remote control unit, set the remote control unit to the TUNER (DEV1) mode. (The page 76 "Remote Control Unit Operations")

3 Press [BAND] to select "FM" or "AM".

Tune in the desired broadcast station.

①To tune in automatically (Auto Tuning)

Press **[MODE]** to light the "AUTO" indicator on the display, then use $[\blacktriangle \forall]$ to select the station you want to hear.

2 To tune in manually (Manual Tuning)

Press [MODE] to turn off the display's "AUTO" indicator, then use $[\blacktriangle V]$ to select the station you want to hear.

- \bullet It is also possible to switch to "FM" or "AM" in step 1 by pressing $[\ensuremath{\textbf{TUNER}}].$
- If the desired station cannot be tuned in with auto tuning, tune it in manually.
- \bullet When tuning in stations manually, press and hold $[\blacktriangle V]$ to change frequencies continuously.
- The time for which the GUI menus are displayed can be set at GUI menu "Manual Setup" "Option Setup" "GUI" "Tuner" (P page 40).

Presetting Radio Stations (Preset Memory)

Your favorite broadcast stations can be preset so that you can tune them in easily. Up to 56 stations can be preset.

Tune in the broadcast station you want to preset.

2 Press [MEMO].

3 Press [A ~ G] to select the block in which the station is to be preset, then press [CHANNEL] or [1 ~ 8] to select the preset number.

* The memory block can also be selected by pressing [SHIFT].

Press [MEMO] again to complete the setting.

- To preset other stations, repeat steps 1 to 4.
- Stations can be preset automatically at GUI menu "Source Select" – "TUNER" – "Auto Preset" (2 page 44).

NOTE

Preset stations are erased by overwriting them.

Getting Started

Listening to Preset Stations

Operation on the Main Unit

Press <TUNING PRESET>, then turn <SOURCE SELECT> to select the preset radio station.

Operation on the Main Remote Control Unit

□ Recalling preset stations from the remote control unit

Press [A ~ G] to select the memory block.

▶ Press [CHANNEL] or [1 ~ 8] to select the desired preset 🖌 channel.

Default settings

	Auto tuner presets		
A1 ~ A8	87.5 / 89.1 / 98.1 / 107.9 / 90.1 / 90.1 / 90.1 / 90.1 MHz		
B1 ~ B8	520 / 600 / 1000 / 1400 / 1500 / 1710 kHz, 90.1 / 90.1 MHz		
C1 ~ C8	90.1 MHz		
D1 ~ D8	90.1 MHz		
E1 ~ E8	90.1 MHz		
F1 ~ F8	90.1 MHz		
G1 ~ G8	90.1 MHz		

RDS (Radio Data System)

RDS (works only on the FM band) is a broadcasting service which allows a station to send additional information along with the regular radio program signal.

The following three types of RDS information can be received with this unit:

Religious music

Religious talk

Personality

Program Type (PTY)

PTY identifies the type of RDS program. The program types and their displays are as follows:

NEWO	1	NOOTALOA	
NEWS	News	NOSTALGA	Nostalgia
INFOM	Information	JAZZ	Jazz
SPORTS	Sports	CLASSICL	Classical
TALK	Talk	R & B	R & B
ROCK	Rock	SOFT R&B	Soft R&B
CLS ROCK	Classic rock	LANGUAGE	Language
ADLT HIT	Adult hits	REL MUSC	Religious r
SOFT RCK	Soft rock	REL TALK	Religious t
TOP 40	Top 40	PERSNLTY	Personality
COUNTRY	Country	PUBLIC	Public
OLDIES	Oldies	COLLEGE	College
SOFT	Soft	WEATHER	Weather

Traffic Program (TP)

TP identifies programs that carry traffic announcements. This allows you to easily find out the latest traffic conditions in your area before leaving home.

Radio Text (RT)

RT allows RDS stations to send text messages that appear on the display.

(NOTE)

The operations described below using [SEARCH] will not function in areas in which there are no RDS broadcasts.

RDS Search

Use this function to automatically tune to FM stations that provide the RDS service.

✓ Either turn <SOURCE SELECT> or press [TUNER] (AMP mode) to select "TUNER".

To operate using the main remote control unit, set the

remote control unit to the TUNER ([DEV1]) mode. (C page 76 "Remote Control Unit Operations")

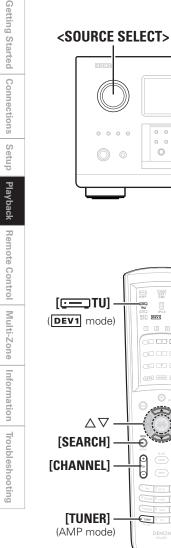
→ Press [SEARCH] to select "RDS".

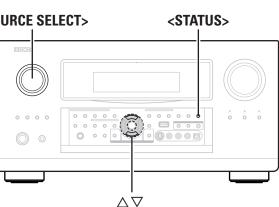
Press [CHANNEL].

- The search for RDS stations begins automatically.
- * If no RDS stations are found with the above operation, all the reception bands are searched.
- * When a broadcast station is found, that station's name appears on the display.

5 To continue searching, repeat steps 2 to 3.

* If no RDS station is found when all the frequencies have been searched, "NO RDS" is displayed.





SATI DEVI NET/ DEVI DEV2 (DEV2 mode) 1 2 3 · [🛦 🔻] [SAT TU] 2 80 11 3 (AMP mode) TANK 0 to HILPHONE

About the button names in these explanations

- : Buttons on the main unit < >
- : Buttons on the remote control unit 1 1

Button name only:

Buttons on the main unit and remote control unit

PTY Search

Use this function to find RDS stations broadcasting a designated program type (PTY).

For a description of each program type, refer to "Program Type (PTY)".

Either turn <SOURCE SELECT> or press [TUNER] (AMP mode) to select "TUNER".

To operate using the main remote control unit, set the remote control unit to the TUNER (DEV1) mode.

(C page 76 "Remote Control Unit Operations")

• Press [SEARCH] to select "PTY".

Watching the display, press $\Delta \nabla$ to call out the desired program type.

5 Press [CHANNEL]. PTY search begins automatically.

* If there is no station broadcasting the designated program type with the above operation, all the reception bands are searched.

* The station name is displayed on the display after searching stops.

To continue searching, repeat steps 2 to 4.

* If no station broadcasting the designated program type is found when all the frequencies have been searched, "NO PROGRAMME" is displayed.

TP Search

Use this function to find RDS stations broadcasting traffic programs (TP stations).

Either turn <**SOURCE SELECT**> or press **[TUNER]** (AMP mode) to select "TUNER".

To operate using the main remote control unit, set the

remote control unit to the TUNER (DEV1) mode. (C page 76 "Remote Control Unit Operations")

3 Press [SEARCH] to select "TP".

Press [CHANNEL].

- TP search begins automatically.
- * If no TP station is found with the above operation, all the reception bands are searched.
- * The station name is displayed on the display after searching stops.

To continue searching, repeat steps 2 to 3.

* If no other TP station is found when all the frequencies have been searched, "NO PROGRAMME" is displayed.

RT (Radio Text)

"RT" appears on the display when radio text data is received.

- Either turn <SOURCE SELECT> or press [TUNER] (AMP mode) to select "TUNER".
- **•** To operate using the main remote control unit, set the
- remote control unit to the TUNER (DEV1) mode. (C page 76 "Remote Control Unit Operations")

• Press [SEARCH] to select "RT".

- * While receiving an RDS broadcast station, the text data broadcast from the station is displayed
- ∗ To turn the display off, press $\triangleleft ▷$.
- * If no text data is being broadcast, "NO TEXT DATA" is displayed.

Listening to XM Satellite Radio **Programs**

ABOUT XM RADIO

XM Radio offers an extraordinary variety of commercial-free music. plus the best in premier sports, news, talk radio, stand-up comedy, children's and entertainment programming. XM is broadcast in superior digital audio from coast to coast. From rock to reggae, from classical to hip hop, XM has something for every music fan. For U.S. customers, information about XM Radio is available online at www.xmradio.com. For Canadian customers, information about XM Canada is online at www.xmradio.ca.

XM READY[®] LEGAL

XM monthly service subscription sold separately. XM Mini-Tuner and Home Dock required (each sold separately) to receive XM service. Installation costs and other fees and taxes, including a onetime activation fee may apply. All fees and programming subject to change. Channels with frequent explicit language are indicated with an XL. Channel blocking is available for XM radio receivers by calling 1-800- XMRADIO (US residents) and 1-877-GETXMSR (Canadian residents). For a full listing of the XM commercial- free channels and advertisingsupported channels, visit lineup.xmradio.com (US residents) or xmradio.ca (Canadian residents). Subscriptions subject to Customer Agreement available at xmradio.com (US residents) and xmradio.ca (Canadian residents). Only available in the 48 contiguous United States and Canada. ©2007 XM Satellite Radio Inc. All rights reserved. All other trademarks are the property of their respective owners.

XM READY[®] SUBSCRIPTIONS

Once you have installed the XM Mini-Tuner Dock, inserted the XM Mini-Tuner, connected the XM Dock to your XM Ready® home audio system, and installed the antenna, you are ready to subscribe and begin receiving XM programming. There are three places to find your eight character XM Radio ID: On the XM Mini-Tuner, on the XM Mini-Tuner package, and on XM Channel 0. Record the Radio ID in the following eight squares for reference.



Note: The XM Radio ID does not use the letters "I", "O", "S" or "F". Activate your XM Satellite Radio service in the U.S. online at http:// activate.xmradio.com or call 1-800-XM-RADIO (1-800-967-2346). Activate your XM Satellite Radio service in Canada online at https:// activate.xmradio.ca or call 1-877-GET-XMSR (1-877-438-9677). You will need a major credit card. XM will send a signal from the satellites to activate the full channel lineup. Activation normally takes 10 to 15 minutes, but during peak busy periods you may need to keep vour XM Ready home audio system on for up to an hour. When you can access the full lineup on your XM Ready home audio system you are done.

Basic Operation

Either turn <**SOURCE SELECT**> or press [**SAT TU**] (AMP mode) to select "XM".

GUI : "Source Select" (page 43, 44)

To operate using the main remote control unit, set the remote control unit to the TUNER (DEV2) mode. (C page 76 "Remote Control Unit Operations")

3 Use $[\land \lor]$ to select the station. When the station is tuned in, the name of the track and artist are displayed.

A

- The channel switches continuously when [V] is pressed and held.
- XM Radio stations can be preset using the same procedure as for FM/AM stations (Presetting Radio Stations (Preset Memory)" and "Listening to Preset Stations").
- The artist name, track name, category and reception level can be checked by pressing **<STATUS>**.
- The time for which the GUI menus are displayed can be set at GUI menu "Manual Setup" – "Option Setup" – "GUI" – "Tuner" (40).

Checking the XM Signal Strength and Radio ID

✓ Either turn <SOURCE SELECT> or press [SAT TU] (AMP mode) to select "XM".

2 Press **<STATUS>** until "SIGNAL" appears on the display.

The display will switch as shown below, depending on the reception conditions.

Display	GUI	Status
GOOD	- Til	Signal strength is good
MARGINAL	M	Signal strength is marginal
WEAK	T T	Signal strength is weak
NO	Ψ	No signal

Adjust the position of the antenna until "SIGNAL: **J** GOOD" is shown on the display.

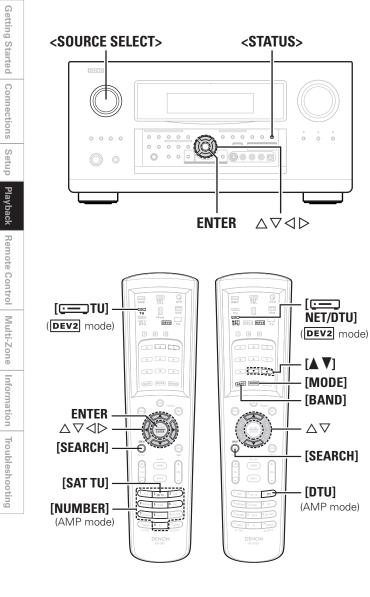
▲ Press <STATUS> until the station you want to check **4** (example: "XM001") is displayed.



XM000	RADIO ID *******	— Radio ID

•

The strength of both the XM satellite and terrestrial signals can be checked at GUI menu "Source Select" - "XM" - "Antenna Aiming" (CP page 47).



Searching Categories



 \frown Use $\triangleleft \triangleright$ to select the category, then use $\triangle \nabla$ to select L the desired station.

Accessing XM Radio Stations Directly

Press [SEARCH].

Press [NUMBER] then input the station's channel.

Example: Accessing station "XM123": $[1] \rightarrow [2] \rightarrow [3]$

* If no button is pressed within several seconds, the station automatically switches to the one whose number has been input.

3 Press ENTER to set that station. Reception switches to the selected state

Reception switches to the selected station.

- "LOADING" is displayed while stations or data are being received.
- "UPDATING" is displayed while the encoding code is being updated.
- "XM - -" is displayed if the selected channel cannot be used.

Listening to HD Radio[™] Stations

HD Radio stations offer higher sound quality than conventional FM/AM broadcasts. It is also possible to receive data services and select broadcasts from among up to eight multicast programs.

Using the HD Radio Receiver

HD Radio technology provides higher quality sound than conventional broadcasts and allows reception of data services.

- FM sounds as sensational as CDs
- AM sounds as rich as analog FM stereo
- A variety of "data services", including text-based information, song title, artist name, album name, genre, etc. can be received.

Furthermore, in addition to conventional broadcasts, with HD Radio broadcasting it is possible to choose from up to 8 multicast programs.

For detailed information on HD Radio technology, please go to "www. ibiguity.com".

H) Radio®

HD Radio[™] Technology Manufactured Under License From iBiquity Digital Corp. U.S. and Foreign Patents. HD Radio[™] and the HD and HD Radio logos are proprietary trademarks of iBiguity Digital Corp.

- : Buttons on the main unit < >
- [: Buttons on the remote control unit 1

Button name only:

Buttons on the main unit and remote control unit

61

Basic Operation

Either turn **<SOURCE SELECT>** or press **[DTU]** (AMP mode) to select "HD Radio".

GUI : "Source Select" (P page 43, 44)

2 To operate using the main remote control unit, set the remote control unit to the NET/DTU (DEV2) mode.

3 Press [BAND] to select "FM" or "AM".

Tune in the desired broadcast station.

①To tune in automatically (Auto Tuning)

Press **[MODE]** to select "HD Auto" or "Auto", then use **[\ V]** to select the station you want to hear.

- The "HD" indicator lights on the display when an HD Radio station is tuned in.
- When "HD Auto" (tuning mode) is selected, only HD Radio stations are tuned in.
- If "Auto" (tuning mode) is selected, both HD Radio and analog stations are tuned in.

(2) To tune in manually (Manual Tuning) Press [MODE] to select "Manual", then use [V].

- It is also possible to switch to "FM" or "AM" at step 1 by pressing [DTU].
- If the desired station cannot be tuned in with auto tuning, tune it in manually.
- When tuning in stations manually, press and hold $[\blacktriangle \ensuremath{\,\overline{V}}]$ to change frequencies continuously.
- HD Radio stations can be preset using the same procedure as for FM/AM stations (27) page 57, 58 "Presetting Radio Stations (Preset Memory)" and "Listening to Preset Stations"). In addition, with HD Radio technology, multicasts can also be preset.
- The time for which the GUI menu is displayed can be set at GUI menu "Manual Setup" – "Option Setup" – "GUI" – "Tuner" (P page 40).

Selecting Audio Programs

An HD Radio broadcast includes up to 8 audio programs (HD1 to HD8 and Analog). The different audio programs also have data programs.

Press [SEARCH] or $\triangle \nabla$ to select the audio program.

If the station you are listening to has multiple audio programs, "HD1" is indicated on the display. If it only has one audio program, "HD" is indicated.

If an audio program from HD2 to HD8 has been interrupted, HD1 is automatically selected after about 20 seconds.

Check the HD Radio Reception Information

Press **<STATUS>** while an HD Radio broadcast is being received.

- The current reception information is shown on the display.
 - 1 Normal
 - Frequency / Signal strength

 - 3 Long station name / Program and Program type
 - \downarrow
 - ④ Title name / Artist name
 - (5) Album name / Genre name

NOTE

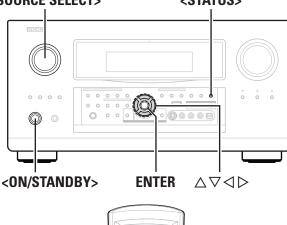
If the station signal weakens while receiving a digital broadcast (while "HD" and text is displayed), the mode automatically switches to the analog reception mode (the reception frequency is displayed). Because of this, the "HD" indicator and text may flicker if the station signal level is weak and unstable.

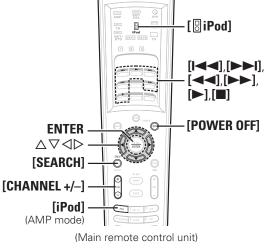
Default settings

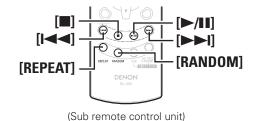
Tuner presets			
A1 ~ A8	87.5 / 87.9 / 89.1 / 93.3 / 97.9 / 98.1 / 98.9 /100.1 MHz		
B1 ~ B8	101.9 / 102.7 / 107.9 / 90.1 / 90.1 / 90.1 / 90.1 / 90.1 / 90.1 MHz		
C1 ~ C8	530 / 600 / 930 / 1000 / 1120 / 1210 / 1400 / 1710 kHz		
D1 ~ D8	90.1 MHz		
E1 ~ E8	90.1 MHz		
F1 ~ F8	90.1 MHz		
G1 ~ G8	90.1 MHz		

<SOURCE SELECT>

<STATUS>







About the button names in these explanations

- < > : Buttons on the main unit
- [] : Buttons on the remote control unit

Button name only:

Buttons on the main unit and remote control unit

iPod[®] Playback

The music on an iPod can be played by using the Control Dock for iPod (ASD-1R, sold separately).

The operation can also be performed using the buttons on the main unit or remote control unit while watching the GUI menus.

Made for iPod iPod is a trademark of Apple Inc., registered in the U.S. and other countries.

The iPod may only be used to copy or play contents that are not copyrighted or contents for which copying or playback is legally permitted for your private use as an individual. Be sure to comply with applicable copyright legislation.

Basic Operation

Make the necessary preparations.

①Set the iPod in the DENON Control Dock for iPod.

(B) See the Control Dock for iPod's operating instructions.) (2) Assign the Control Dock for iPod's input.

GUII: "Source Select" – "(input source)" – "Assign"– "iPod dock" (☞ page 47)

2 Either turn **<SOURCE SELECT>** or press [iPod] (AMP mode) to select the input source assigned in step 1-(2)

above.

iPod

4

DENON

OK to disconnect

(iPod screen)

* If the screens above are not displayed, the iPod may not be properly connected. Try connecting again.

 GUI
 : "Source Select" - "(input source)" - "Play"

 (Image 144)

- **3** To operate using the main remote control unit, set the remote control unit to the iPod mode.
 - remote control unit to the iPod mode. (EP page 76 "Remote Control Unit Operations")

- With the default settings, the iPod can be used connected to the VCR (iPod) connector.
- Use the RESTORER mode to expand the low and high frequency components of compressed audio files and achieve a richer sound. The default setting is "Mode3".
- Press <0N/STANDBY> or [POWER OFF] and set the AVR-5308CI's power to the standby mode before disconnecting the iPod. Also switch the input source to one to which the GUI menu "iPod dock" is not assigned before disconnecting the iPod.

NOTE

- Depending on the type of iPod and the software version, some functions may not operate.
- DENON will accept no responsibility whatsoever for any loss of iPod data.

Listening to Music

Use $\triangle \nabla$ to select the menu, then press ENTER or \triangleright to select the music file to be played.

2 Press ENTER or \triangleright . Playback starts.

To pause

During playback, press **ENTER** or **[▶]**. Press again to resume playback.

Fast-forwarding or fast-reversing

During playback, either press and hold Δ (to fast-reverse) or ∇ (to fast-forward), or press [$\blacktriangleleft \triangleleft$] or [$\blacktriangleright \triangleright$].

To cue to the beginning of a track

During playback, either press Δ (to cue to the previous track) or ∇ (to cue to the next track), or press **[I** \triangleleft **]** or **[** \triangleright **\trianglerightI]**.

To stop

During playback, either press and hold **ENTER** or press [

Playing repeatedly

Press [CHANNEL –] or [REPEAT] on the sub remote control unit.

[Selectable items] All One OFF



"Playback Mode (iPod)" – "Repeat" (1) page 46)

Getting Started

Connections

Shuffling playback

Press [CHANNEL +] or [RANDOM] on the sub remote control unit.

[Selectable items] Albums Songs OFF

GUI : "Source Select" – "(input source)" – "Playback Mode (iPod)" – "Shuffle" (@ page 46)

Searching up or down pages

Press **[SEARCH]**, then press \triangleleft (down) or \triangleright (up). To cancel, press $\triangle \nabla$ or **[SEARCH]**.

To switch between the Browse and Remote modes Either press and hold [SEARCH].

- The title name, artist name and album name can be checked by pressing **<STATUS>** during playback.
- On the AVR-5308CI, folder and file names can be displayed as titles. Any characters that cannot be displayed are replaced with " . (period)".
- The time for which the GUI menus are displayed can be set at GUI menu "Manual Setup" "Option Setup" "GUI" "iPod" (B page 40).

Viewing Still Pictures or Videos on the iPod

Photo and video data on the iPod can be viewed on the monitor. (Only for iPod equipped with slideshow or video functions.)

Press and hold [SEARCH] to set the Remote mode. "Remote iPod" is displayed on the AVR-5308Cl's display.

2 Watching the iPod's screen, use $\Delta \nabla$ to select "Photos" or "Videos".

3 Press ENTER until the image you want to view is displayed.

.

"TV Out" at the iPod's "Slideshow Settings" or "Video Settings" must be set to "On" in order to display the iPod's photo data or videos on the monitor. For details, see the iPod's operating instructions.

Playing Network Audio, USB Memory Devices or Rhapsody

This procedure can be used to play Internet radio stations or music or still picture (JPEG) files stored on a computer or USB memory device or Rhapsody.

□ About the Internet radio function

• Internet radio refers to radio broadcasts distributed over the Internet. Internet radio stations from around the world can be tuned in.

The AVR-5308Cl is equipped with the following Internet radio functions:

- $\cdot\,$ Stations can be selected by genre and region.
- $\cdot\,$ Up to 56 Internet radio stations can be preset.
- $\cdot\,$ Internet radio stations in MP3 and WMA (Windows Media Audio) format can be listened to.
- Your favorite radio stations can be registered by accessing an exclusive DENON Internet radio URL from a Web browser on a computer.
- **%** The function is managed for individual users, so you must provide your MAC or e-mail address.

Exclusive URL: <u>http://www.radiodenon.com</u>

- $\ensuremath{\textbf{X}}$ The radio station database service may be suspended without notice.
- The AVR-5308CI's Internet radio station list is created using a radio station database service (vTuner). This database service provides a list edited and created for the AVR-5308CI.

Media server

This function lets you play music files and playlists (m3u, wpl) stored on a computer (media server) connected to the AVR-5308Cl via a network.

With the AVR-5308Cl's network audio playback function, connection to the server is possible using one of the technologies below.

- Windows Media Player Network Sharing Service
- vvinuows iviedia Player Network Sharin
 Windowa Madia DPM10
- · Windows Media DRM10

[Album art function]

When a WMA (Windows Media Audio), MP3 or MPEG-4 AAC file includes album art data, the album art can be displayed while the music files are playing.

For music files in WMA (Windows Media Audio) format, the album art is only played when using Windows Media Player ver. 11.

[Slide show function]

Still picture (JPEG) files stored in folders on a media server can be played as slide shows.

The time for which each picture is displayed can be set.



When still picture (JPEG) files are played on the AVR-5308CI, they are played in the direction in which they are stored in the folder, so store in them in the direction in which you want them to play.

Installing Windows Media Player ver. 11

- If Windows XP Service Pack 2 has not yet been installed, either download it free of charge from Microsoft or install it via a Windows update installer.
- ② Download the latest version of Windows Media Player ver. 11, either directly from Microsoft or using a Windows update installer.
- * When using Windows Vista, there is no need to download a new version of Windows Media Player.

USB memory devices

A USB memory device can be connected to the AVR-5308Cl's USB port to play music and still picture (JPEG) files stored on the USB memory device.

- Only USB memory devices conforming to mass storage class and MTP (Media Transfer Protocol) standards can be played on the AVR-5308CI.
- \cdot The AVR-5308CI is compatible with USB memory devices in "FAT16" or "FAT32" format.

[Album art function]

When an MP3 music file includes album art data, the album art can be displayed while playing the file.

[Slide show function]

Still picture (JPEG) files stored on USB memory devices can be played as slide shows.

The time for which each picture is displayed can be set.

<u> </u>

When still picture (JPEG) files are played on the AVR-5308Cl, they are played in the direction in which they are stored in the folder, so store in them in the direction in which you want them to play.

[Compatible formats]

	Internet radio	Music server [※]	USB [%]	
WMA (Windows Media Audio)	0	0	•*	
MP3 (MPEG-1 Audio Layer-3)	0	0	0	
WAV	-	0	0	
MPEG-4 AAC	-	*	*	
FLAC (Free Lossless Audio Codec)	_	0	0	
JPEG	-	0	0	

A server or server software compatible with distribution in the corresponding formats is required to play music files via a network.

*: Only files that are not protected by copyright can be played on the AVR-5308CI.

Contents downloaded from pay sites on the Internet are copyright protected. Also, files encoded in WMA format when ripped from a CD, etc., on a computer may be copyright protected, depending on the computer's settings.

- $\ensuremath{\texttt{\%}}$ Music server and USB
 - The AVR-5308CI is compatible with MP3 ID3-Tag (Ver. 2) standards.
 - The AVR-5308CI is compatible with WMA META tags.

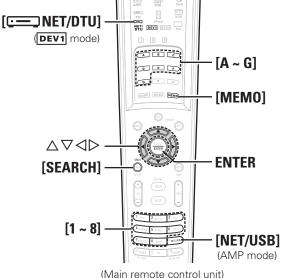
[Playable formats]			
	Sampling frequency	Bit rate	Extension
WMA (Windows Media Audio)	32/44.1/48 kHz	48~192 kbps	.wma
MP3 (MPEG-1 Audio Layer-3)	32/44.1/48 kHz	32~320 kbps	.mp3
WAV	32/44.1/48 kHz	-	.wav
MPEG-4 AAC	32/44.1/48 kHz	16~320 kbps	.aac/.m4a/.mp4
FLAC (Free Lossless Audio Codec)	32/44.1/48 kHz	_	.flac

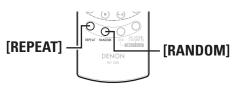
WAV format Quantization bit rate: 16 bits.

Rhapsody

Rhapsody is a paid music broadcast service of RealNetworks. When you first listen to Rhapsody, take advantage of the "30-day free trial". When the free trial period has expired, it is necessary to subscribe to a Rhapsody account at the Rhapsody homepage and register this machine. See the Rhapsody homepage for details. www.rhapsody.com/denon/signup

<SOURCE SELECT> ENTER AVAD <STATUS>





(Sub remote control unit)

About the button names in these explanations

- < > : Buttons on the main unit
- [] : Buttons on the remote control unit

Button name only:

Buttons on the main unit and remote control unit

Basic Operation

Make the necessary preparations. Check the network environment, then turn on the AVR-5308Cl's power. (IP page 22 "Network Audio") If settings are required, make the network settings. (IP page 35 ~ 38 "Network Setup") Prepare the computer. (IP Computer's operating instructions) Install "Windows Media Player ver. 11." Either turn <SOURCE SELECT> or press [NET/USB] (AMP mode) to select "NET/USB". IS "Source Select" - "NET/USB" - "Play" (IP page 44)

- **3** To operate using the main remote control unit, set the remote control unit to the NET/DTU (DEV1) mode. (The page 76 "Remote Control Unit Operations")
- **4** Use $\triangle \nabla$ to select the menu, then press ENTER or \triangleright to select the file you want to play.
- **5** Press ENTER or ▷. Playback starts.

Playing repeatedly

Press [REPEAT] on the sub remote control unit.

[Selectable items] All One OFF

GUI : "Source Select" - "NET/USB" - "Playback Mode" -"Repeat" (@ page 47)

Playing in random order

Press [RANDOM] on the sub remote control unit.

GUI: "Source Select" - "NET/USB" - "Playback Mode" -"Random" (@ page 47)

The repeat mode and random mode can only be used when playing tracks recorded in USB/Media Server/Rhapsody.

Getting Started Connections Setup Playback Remote Control Multi-Zone Information Troubleshooting

66

To pause

During playback, press **ENTER**. Press again to resume playback.

To stop

During the play or pause mode, press and hold **ENTER**.

Searching up or down pages

Press **[SEARCH]**, then press \triangleleft (down) or \triangleright (up). To cancel, press $\triangle \nabla$ or **[SEARCH]**.

Searching by first letter (Character search)

This operation is convenient for choosing items from the menu screens for Internet radio stations or files stored on the computer.

- ① When the menu screen is displayed, press **[SEARCH]** twice.
- (2) Use $\triangleleft \triangleright$ to select the first letter you want to search for.
- If there are multiple items starting with the selected letter, they are displayed in alphabetical order.

If it is not possible to search the list, "unsorted list." is displayed. To cancel, press or $\Delta \nabla$ or [SEARCH].

ø

- Use the RESTORER mode to expand the low and high frequency components of compressed audio files and achieve a richer sound. The default setting is "Mode3".
- The time for which the GUI menus are displayed can be set at GUI menu "Manual Setup" "Option Setup" "GUI" "NET/USB" (27 page 40).
- Use <STATUS> to switch between displaying the title name, artist name or album name.

Listening to Internet Radio

1 Use $\triangle \nabla$ to select "Internet Radio", then press ENTER or \triangleright .

2 Use $\triangle \nabla$ to select the item you want to play, then press ENTER or \triangleright .

The station list is displayed.

3 Use $\Delta \nabla$ to select the station, then press ENTER or \square .

Playback starts once buffering reaches "100%".



• There are many Internet radio stations on the Internet, and the quality of the programs they broadcast as well as the bit rate of the tracks varies widely.

Generally, the higher the bit rate, the higher the sound quality, but depending on the communication lines and server traffic, the music or audio signals being streamed may be interrupted.

Inversely, lower bit rates mean a lower sound quality but less tendency for the sound to be interrupted.

- "Server Full" or "Connection Down" is displayed if the station is busy or not broadcasting.
- On the AVR-5308CI, folder and file names can be displayed as titles. Any characters that cannot be displayed are replaced with " . (period)".

Recently Played Internet Radio Stations

Recently played internet radio stations can be selected from "Recently Played" in top menu.

1 Use $\triangle \nabla$ to select "Recently Played", then press **ENTER** or \triangleright .

2 Use $\triangle \nabla$ to select the item you want to play, then press ENTER or \triangleright .

NOTE

Up to 20 stations stored in "Recently Played".

Presetting Internet Radio Stations

Preset Internet radio stations can be selected directly.

1 While the Internet radio station you want to preset is playing, press [MEMO].

2 Use $\Delta \nabla$ to select "Preset", then press ENTER.

3 Press [A ~ G], then press [1 ~ 8] to select the desired preset number.

The Internet radio station is now preset.

NOTE

If registered at a number that has already been preset, the previously registered setting is cleared.

□ Listening to Preset Internet Radio Stations

Press **[A ~ G]**, then press **[1 ~ 8]**.

The AVR-5308Cl automatically connects to the Internet and playback begins.

Registering Internet Radio Stations as Your Favorites

Favorites are listed at the top of the menu screen, so when a station is registered as a favorite it can be tuned in easily.

1	1	Press [MEMO] while the Internet radio station you	
		want to register is playing.	

2	Use $\Delta \nabla$	to select	"Favorites",	then	press	ENTER.
---	---------------------	-----------	--------------	------	-------	--------

- \frown Press \triangleleft to select "Yes".
- J The Internet radio station is registered. If you do not want to register it, press ▷.

□ Listening to Internet Radio Stations Registered in Your Favorites

- **1** Use $\Delta \nabla$ to select "Favorites", then press ENTER or \triangleright .
- **2** Use $\triangle \nabla$ to select the Internet radio station, then press ENTER or \triangleright .

The AVR-5308CI automatically connects to the Internet and playback begins.

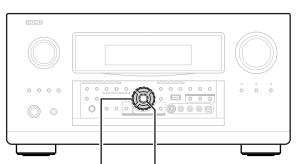
Clearing Internet Radio Stations from Your Favorites

1 Use $\Delta \nabla$ to select "Favorites", then press ENTER or \triangleright .

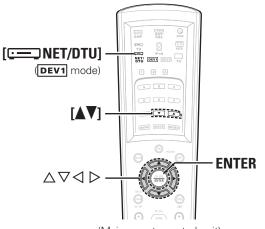
2 Use $\Delta \nabla$ to select the Internet radio station you want to clear, then press [MEMO].

B Press I to select "Delete". The selected Internet radio station is cleared.

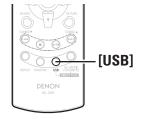
To cancel the operation without clearing the station, press \triangleright .



 $\triangle \nabla \triangleleft \triangleright$ ENTER



(Main remote control unit)



(Sub remote control unit)

About the button names in these explanations

- < > : Buttons on the main unit
- [] : Buttons on the remote control unit

Button name only:

Buttons on the main unit and remote control unit

Playing Files Stored on a Computer Use this procedure to play music files, image files or playlists.

1 Use $\Delta \nabla$ to select "Media Server", then press ENTER or \triangleright .

2 Use $\triangle \nabla$ to select the host name of the computer on which the music file you want to play is located, then press ENTER or \triangleright .

3 Use $\triangle \nabla$ to select the search item or folder, then press ENTER or \triangleright .

4 Use $\Delta \nabla$ to select the file, then press ENTER or \triangleright . Playback starts once buffering reaches "100%".

Selecting tracks

During playback, either press Δ (previous track) or ∇ (next track).

• When playing still picture (JPEG) files, files can also be selected using the operation described below.

During playback, either press [▲] (previous file) or [▼] (next file).

- Connections to the required system and specific settings must be made in order to play music files (127) page 22).
- Before starting, you must launch the computer's server software and set the files as server contents. For details, see the operating instructions of your server software.
- Depending on the size of the still picture (JPEG) file, some time may be required for the file to be displayed.

Playing files that have been Preset or Registered in Your Favorites

Files can be preset, registered in your favorites and played using the same operations as for Internet radio stations.

NOTE

- Presettings are erased by overwriting them.
- When the operation described below is performed, the music server's database is updated and it may no longer be possible to play preset or favorite music files.
- When you quit the music server and then restart it.
- When music files are deleted or added on the music server.
- When using an ESCIENT server, place "ESCIENT" before the server name.

Playing Files Stored on USB Memory Devices

Only USB memory devices conforming to mass storage class and MTP (Media Transfer Protocol) standards can be played on the AVR-5308CI.

Basic Operation

Make the necessary preparations.
Set the USB port to be used.

GUI : "Source Select" – "NET/USB" – "Playback Mode" – "USB Select" (@ page 47)

• Connect the USB memory device to the set USB port.

2 Use $\Delta \nabla$ to select "USB", then press **ENTER** or \triangleright .

3 Use $\triangle \nabla$ to select the search item or folder, then press ENTER or \triangleright .

4 Use $\Delta \nabla$ to select the file, then press ENTER or \triangleright . Playback starts once buffering reaches "100%".

- By default, the front panel's USB port will be used.
- Depending on the size of the still picture (JPEG) file, some time may be required for the file to be displayed.

Selecting tracks

During playback, either press Δ (previous track) or abla (next track).

68

• When playing still picture (JPEG) files, tracks can also be selected using the operation described below.

During playback, either press [] (previous file) or [V] (next file).

- If the USB memory device is divided into multiple partitions, only the top partition can be selected.
- The AVR-5308Cl is compatible with MP3 files conforming to "MPEG-1 Audio Layer-3" standards.
- When **[USB]** is pressed, playback starts from the first track on the USB memory device.

NOTE

- The AVR-5308CI is equipped with two USB ports, one each on the front and rear panels. It is not possible to use the set with USB memory devices connected to both the ports at the same time. Select the USB port you want to use at the "Source Select" – "NET/ USB" – "Playback Mode" – "USB Select" menu.
- DENON will accept no responsibility whatsoever for any loss or damage to data on USB memory devices when using the USB memory device connected to the AVR-5308CI.
- USB memory devices will not work via a USB hub.
- DENON does not guarantee that all USB memory devices will operate or receive power. When using a USB connection type portable hard disk of the type for which power can be supplied by connecting an AC adapter, we recommend using the AC adapter.
- It is not possible to connect and use a computer via the AVR-5308Cl's USB port using a USB cable.
- The AVR-5308CI is not compatible with the iPod shuffle.

Listening to Rhapsody

Preparations

1 Use $\Delta \nabla$ to select "Rhapsody", then press ENTER or \triangleright .

2 Use $\Delta \nabla$ to select "I have a Rhapsody account" or "Start 30-day free trial", then press ENTER or \triangleright .

1 When selecting "I have a Rhapsody account" Enter Username and Password. Select "OK", then press ENTER.

- (2) When selecting "Start 30-day free trial" Select "Accept" then press ENTER.
- * To cancel, select "Reject", then press **ENTER**.

□ Username : _

[Input characters]

a ~ z A ~ Z 0 ~ 9

! " #\$%&() * +, -./:;<=>?@[\]^_`{|}~(space)

□ Password :

[Input characters]

```
a ~ z A ~ Z 0 ~ 9
```

! " **# \$ % & ()** * **+** , - . / : ; < = > ? @ [\] ^ `{|}~ (space)

NOTE

• The password should be no longer than 99 characters.

• The password may not contain underscores (_).

Search From Rhapsody Latest Information

Use $\Delta \nabla$ to select "Rhapsody Music Guide", then press ENTER or \triangleright .

2 Use $\triangle \nabla$ to select the information for track selection, then press ENTER or \triangleright .

After selecting, the information is displayed.

3 Use $\Delta \nabla$ to select the track, then press ENTER or \triangleright .

Enter a Character Search For the Track You Want to Listen to

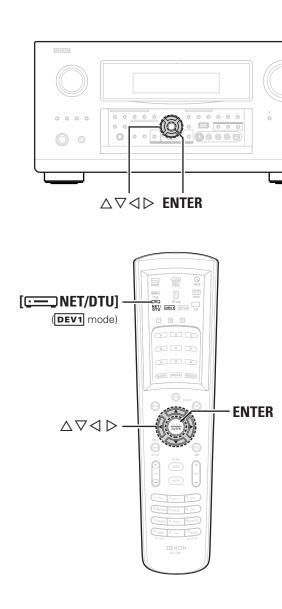
4 Use $\Delta \nabla$ to select "Search", then press ENTER or \triangleright .

2 Use $\triangle \nabla$ to select the search item, then press ENTER or \triangleright .

The search display appears.

* You can search by artist name, album name or track name.

2 Enter the characters, then press ENTER.



Search From the Rhapsody Internet Radio Station

1 Use $\triangle \nabla$ to select "Rhapsody Channels", then press ENTER or \triangleright .

2 Use $\triangle \nabla$ to select radio station, then press ENTER or \triangleright .

Registering Tracks in My Library

1 Press \triangleright while the track you wish to register is playing.

2 Use $\Delta \nabla$ to select "Add to My Library", then press ENTER. The track is entered in the Library.

Listening to Tracks Registered In My Library

1 Use $\triangle \nabla$ to select "My Library", then press ENTER or \triangleright .

2 Use $\Delta \nabla$ to select the information or track, then press **ENTER**.

After selecting, the information is displayed.

Displaying the Track Menu During Play

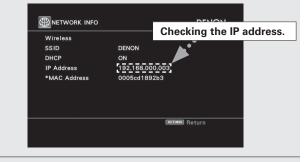
◀ Press ▷ during playback.

2 Use $\triangle \nabla$ to select the search item, then press ENTER or \triangleright .

Operating the AVR-5308Cl Using a Browser (Web control)

This function lets you operate the AVR-5308CI using Internet Explorer.

- Switch "OFF" the "Power Saving" setting under "Manual Setup" – "Network Setup" – "Other" on the GUI menu (27 page 38).
- 2 Check the AVR-5308CI's IP address with "Manual Setup" "Network Setup" "Network Information" on the GUI menu (P page 38).



3 Enter the AVR-5308CI IP address in Internet Explorer's address box.

For example, if the IP address of AVR-5308Cl is "192.168.000.003", enter "http://192.168.0.3".

INDEX - Microsoft Internet Explorer File Edit View Favorites Tools Help.

🕒 Back 🔹 🌍 🖌 🖹 🖉 🏠 🔎 Search 👷 Favorites 🜒 Media 🚱 🔗 😓 🖸 🔹

Address Address http://192.168.0.3/index.asp

DENON Web Controler

Entering the IP address.

Multi Zone2 Contro

Multi Zone3 Contro

About the button names in these explanations

- < > : Buttons on the main unit
- [] : Buttons on the remote control unit

Button name only:

Buttons on the main unit and remote control unit

Getting Started

Connections

Setup

Playback

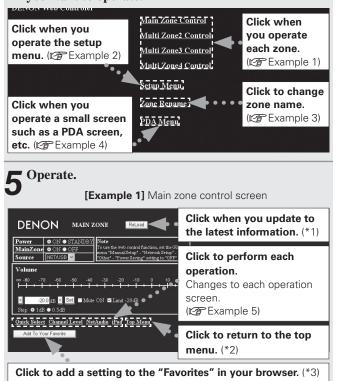
Remote Control

Multi-Zone

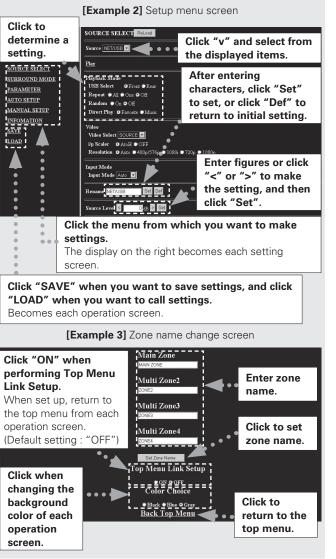
Information

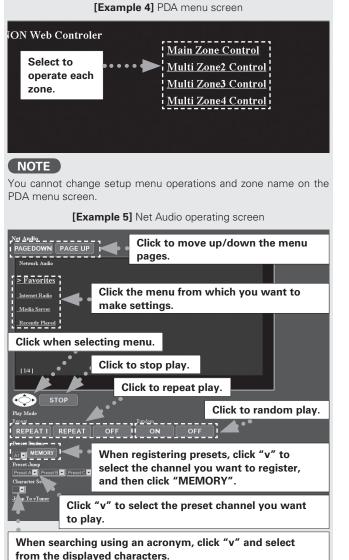
Troubleshooting

4 When the top menu is displayed, click on the menu you want to operate.



- *1 : Normally, there is a change to the latest information each time you operate. When operated from the main unit, click because the screen is not updated.
- *2 : Displayed when setting "Top Menu Link Setup" to "ON" in [Example 3].
- *3 : To avoid mistakenly performing menu operations of a zone you are not operating, we recommend that you register the setting contents for each zone under Favorites in your browser.





NOTE

- To perform web control, you must connect a web control device such as a PC to the same network as the AVR-5308CI.
- With web control, some network settings, etc., cannot be set.
- When updating firmware, settings made by the web controller may be reset.

Getting Started

Connections

Setup

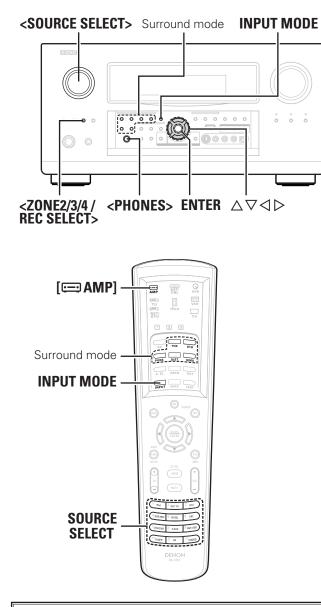
Playback

Remote Control

Multi-Zone

Information

Troubleshooting



About the button names in these explanations

- < > : Buttons on the main unit
- : Buttons on the remote control unit [1

Button name only:

Buttons on the main unit and remote control unit

Other Operations and Functions

Other Operations

Playing Super Audio CD

Assign "DENON LINK" or "HDMI" at the "Digital" or "HDMI" setting (page 46).

▲ Either turn <SOURCE SELECT> or press [SOURCE **Z** SELECT] to select the input source assigned in step 1. The " DLINK " or " HDMI " indicator lights on the display.

Select "AUTO" for the INPUT MODE (Proge 45).

Select the surround mode (page 48 ~ 50). We recommend playing in the DIRECT mode.

Start playing the Super Audio CD.

The "DSD" indicator lights on the display. For operating instructions, refer to the respective equipment's operating instructions.

- When playing DSD signals in the DIRECT or PURE DIRECT mode, the DSD signals are converted as such into analog signals. When playing in other surround modes, the DSD signals are first converted into PCM format, then into analog signals.
- "DSD DIRECT" is shown on the display when playing DSD 2-channel signals in the DIRECT mode. "DSD MULTI DIRECT" is shown on the display when playing DSD multi-channel signals in the DIRECT mode.
- The DSD signal may not be output depending on the equipment that is connected. For further details, refer to the user manual for the equipment being used.

Recording on an External Device (REC OUT mode)

You can listen to one program source while recording a different program source.

Press <ZONE2/3/4 / REC SELECT>. "ZONE3 SOURCE" is shown on the display.

Turn <**SOURCE SELECT**> until "RECOUT SOURCE" **L** is displayed.

The " REC " indicator lights.

ZONE3 SOURCE - ZONE3 TUNER - ZONE3 HD Radio

3 Turn **<SOURCE SELECT>** to choose the input source to be recorded.

Play the program source.

For operating instructions, refer to the respective equipment's operating instructions.

To record FM or AM broadcasts, select the broadcast (
 page 57).

5 Start recording. For operating instructions, refer to the respective equipment's operating instructions.

Getting Started

Connections

Setup

Playback

Remote Control

Multi-Zone

Information

Troubleshooting

- To cancel, press **<ZONE2/3/4 / REC SELECT>**, then turn **<SOURCE SELECT>** until "ZONE3 SOURCE" is displayed.
- Make a test recording before starting the actual recording.
- Signals are only output to the analog REC OUT connectors when the digital signals input to the digital input connectors (OPTICAL/ COAXIAL) are PCM (2-channel) signals.
- Digital audio signals input to the DENON LINK or HDMI connectors are not output to the REC OUT connectors, so connect using the OPTICAL or COAXIAL connectors.
- Sources selected with the REC OUT mode are output from ZONE3 as well.
- In the REC OUT mode, the remote control unit's ZONE3 mode buttons cannot be operated.
- When the "Digital Out" setting is set to "ZONE4 Select", the OPTICAL4 output connector becomes the ZONE4 output. When using for recording, set to "Rec Select".
- The "XM" and "HD Radio" digital audio output signals are not output from the OPTICAL2, OPTICAL3 or OPTICAL4 output connectors. Also, network audio signals (Internet radio, music server, USB, Rhapsody) are not output if they are copyright-protected.

NOTE

- Recordings you make are for your personal enjoyment and should not be used for other purposes without permission of the copyright holder.
- When "DENON LINK" is assigned at the GUI menu "Assign" setting, the PCM signals, network audio signals (Internet radio, music server, USB and Rhapsody), XM signals and HD Radio signals input from the digital input connectors cannot be output from the analog REC OUT connectors.
- Input sources for which "Delete" is selected at "Source Delete" cannot be selected.

Dolby Headphone recording

When REC OUT mode is set to "SOURCE", with the AVR-5308Cl it is possible to output signals encoded in the Dolby Headphone mode from the recording output terminal and record them on a separate recorder.

1 The Dolby Headphone play mode is set when headphones are connected to **<PHONES>** during playback in the STANDARD (DOLBY/DTS Surround) mode.

When this is done, signals encoded in the Dolby Headphone mode are automatically output from the recording output terminals (analog and digital) and can be recorded.

2 Select the parameters and set the desired mode. Start recording.

Refer to the "Dolby Headphone" (B page 49).

NOTE

Do not disconnect the headphones during recording.

Getting Started

Convenient Functions

HDMI Control Function

• Turn power ON/OFF (Synchronize with television)

Switch to sound output equipment (TV and AVR-5308CI)

possible.

 Adjust volume Switch input source

Player compatible with HDMI control function	Television compatible with HDMI control function
	AUDIO OPTICAL HDMI OUT IN L R O O O C

When connecting the AVR-5308CI to a television or player compatible with the HDMI control function, the following operations are

When using these functions set as follows: GUI menu "Manual Setup" - "HDMI Setup" - "HDMI Control" (12) page 33).

Operations

Connect the HDMI to the AVR-5308CI with equipment compatible with the HDMI control function.

• Put the power on for all the equipment connected to L the HDMI.

• Check the settings for all the equipment connected to **3** the HDMI and make HDMI available to them.

- * Please consult the operating instructions for the connected equipment to check the settings.
- * Operations 1-3 do not have to be repeated once started.
- * Carryout Operations 2 and 3 should any of the equipment be plugged out.

Switch the television input to the HDMI connected to **4** the AVR-5308CI.

5 Switch the AVR-5308CI input to the HDMI input source and check if the picture from the player is ok.

Put the television power on standby and check if the **O** AVR-5308CI goes into standby.

()

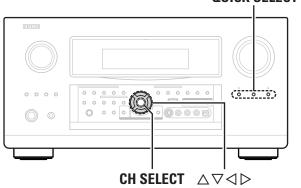
"(input source)"

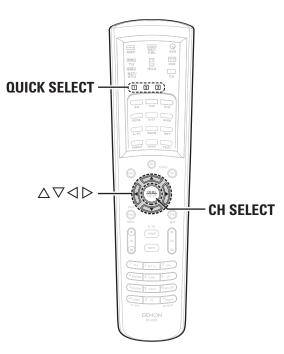
If the AVR-5308CI does not work please check the following.

- Is the GUI menu "Manual Setup" "HDMI Setup" "HDMI Control" - "Control" (reprage 33) set to "ON"?
- Is the GUI menu "Manual Setup" "HDMI Setup" "HDMI Control" - "Control Monitor" (1) page 33) set for the monitor output connected to television?
- Is the GUI menu "Manual Setup" "HDMI Setup" "HDMI Control" - "Power Off Control" (Page 33) set to "ON"?
- Is the control function used for the television HDMI properly set? (Check the television operating instructions for details.)
- Should any of the operations below be performed, the interlocking function may be reset, in which case, repeat Operation's 2 and 3.
- GUI menu "Source Select" "Assign" "HDMI" (@ page 46) setting has changed
- There is a change to the connection between the equipment and the HDMI, or an increase in equipment.
- AVR-5308CI GUI menu "Manual Setup" "HDMI Setup" "Monitor Out" (Pr page 33) is changed.

Multi-Zone Information Troubleshooting

QUICK SELECT





About the button names in these explanations

- < > : Buttons on the main unit
- [1 : Buttons on the remote control unit

Button name only:

Buttons on the main unit and remote control unit

Channel Level

You can adjust the channel level either according to the playback sources or to suit your taste, as described below.

✓ Press CH SELECT.

Use $\triangle \nabla$ or **CH SELECT** to select the speaker.

2 Use $\Delta \nabla$ or CH SELECT to select the speaker. The speaker that can be set switches each time one of the buttons is pressed.

Use $\triangleleft \triangleright$ to adjust the volume.

* "OFF" can be set by pressing \triangleleft when the subwoofer's volume is set to -12dB.

Fader Function

This function lets you adjust (fade) the sound from all the front or rear speakers at once

Press CH SELECT.

Press $\triangle \nabla$ or **CH SELECT** to select "Fader".

 \square Use $\triangleleft \triangleright$ to adjust the volume of the speakers. $(\triangleleft: \text{front}, \triangleright: \text{rear})$

- The fader function does not affect the subwoofer.
- The fader can be adjusted until the volume of the speaker adjusted to the lowest value is -12 dB.

Quick Select Function

With this function, the currently playing input source, input mode, surround mode, room EQ settings and volume can be stored in the memory.

Set the input source, input mode, surround mode, room EQ settings and volume to the conditions you want to store.

Press and hold the desired QUICK SELECT.

Z Keep pressing the button until the quick select indicator lights.

[Quick Select Defaults]

	Input Source	Volume
Quick Select 1	DVD	-40 dB
Quick Select 2	TV/CBL	-40 dB
Quick Select 3	VCR	-40 dB

é

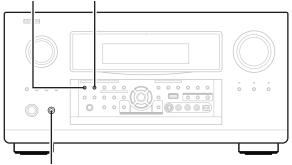
- To call out the settings, press **QUICK SELECT** at which the desired settings were stored.
- The Quick Select name can be changed (127 page 40).

NOTE

Input sources stored with the quick select function cannot be selected if they have been deleted at GUI menu "Manual Setup" - "Option Setup" - "Source Delete" (@ page 40). In this case, store them aqain.



<STANDARD> <HOME THX CINEMA>



<POWER>

About the button names in these explanations

- < > : Buttons on the main unit
- [] : Buttons on the remote control unit

Button name only:

Buttons on the main unit and remote control unit

Personal Memory Plus Function

This function sets the settings (input mode, surround mode, HDMI output mode, Picture Adjust, Audio Delay etc.) last selected for the individual input sources.

When you switch to an input source, the settings are automatically set to the ones that were set the last time that input source was used.

The surround parameters, tone control, room EQ settings and the volumes of the different speakers are stored for the individual surround modes.

Last Function Memory

This stores the settings as they were directly before the standby mode was set.

When the power is turned back on, the settings are restored to as they were directly before the standby mode was set.

Backup Memory

The various settings are backed up for about 1 week, even if the power is turned off or the power cord is disconnected.

Resetting the Microprocessor

Perform this procedure if the display is abnormal or if operations cannot be performed.

All settings are reset when the microcomputer is reset. However, the information in the Rhapsody account is not reset.

Turn off the power using **<POWER>**.



3 Once the display starts flashing at intervals of about 1 second, release the two buttons.

,

If in step 3 the display does not flash at intervals of about 1 second, start over from step 1.

Getting Started

Connections

Setup Playback

Remote Control Unit Operations

Main Remote Control Unit

- On the main remote control unit, the display switches according to the device being operated and the mode.
 In modes other than iPod, the mode switches between "DEV1" and "DEV2" each time the [MODE SELECTOR] is pressed.
- In the AMP, TUNER, NET/DTU and iPod modes, when the remote ID is set, the AVR-5308CI can be used independently even in an environment containing multiple DENON amplifiers.

Operating DENON Audio Components

Press [MODE SELECTOR] for the component to be operated.

The indicator for the component to be operated flashes.

: AMP / ZONE2 / ZONE3 / ZONE4 / iPod SYSTEM CALL iPod TU TU DVD player (recorder) / TUNER (FM/AM) / XM CD player (recorder) : NETWORK/USB / NET/ DTU VCR / TAPE DIGITAL TUNER (HD Radio) SAT/ ΤV Satellite Receiver / Cable TV

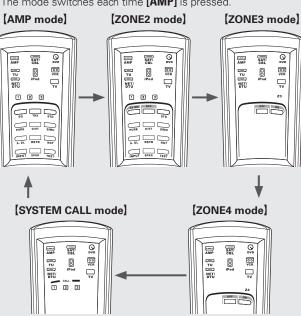
* The mode switches each time [AMP] is pressed.

Signal transmission indicator [Imode Selector [Mode Selector [Home] [NUMBER] [NUMBER] [RC SETUP]

Depending on the model and year of manufacture of your equipment, some buttons may not operate.

NOTE

The device mode ("**DEV1**" or "**DEV2**") cannot be changed while the setting is being made.



9 Operate the component.

* For details, refer to the component's operating instructions.

[HOME] is used to return to the AMP mode (AMP, ZONE2, ZONE3, ZONE4 or SYSTEM CALL) when in any mode other than AMP.

Presetting

The included main remote control unit can be preset to operate devices of various brands.

Press [MODE SELECTOR] for the device you want to preset.

- **2** Press and hold in [RC SETUP] for at least 3 seconds. The signal transmission indicator flashes twice.
- **3** Press [NUMBER] and input the 5-digit number of the brand of the component to be preset. The numbers are shown in the Preset Code Table (12) End of this manual).

When the code is registered, the signal transmission indicator flashes twice.

When the preset code is transmitted, the mode indicator for the component to which that code belongs flashes.

* The input mode is canceled if no button is operated for 10 seconds.

.

Some brands have more than one preset code. If the component does not operate, try inputting a different code.

Operating Preset Components

1 Press [MODE SELECTOR] for the component to be operated. The mode indicator of the device to be operated flashes.

Operate the component.

* For details, refer to the component's operating instructions.

Functions of Buttons by Component

EL Display [MODE SELECTOR]	[▶], [I◀◀ ▶▶I], [◀◀ ▶▶], [III], [■], — [SOURCE ON], [SOURCE OFF]
[MENU] — [SETUP/ SEARCH] — [CH + / — SHUFFLE], [CH – / REPEAT] Buttons	— [ENTER] — [△▽⊲▷] — [RETURN] — [0 ~ 9, +10]

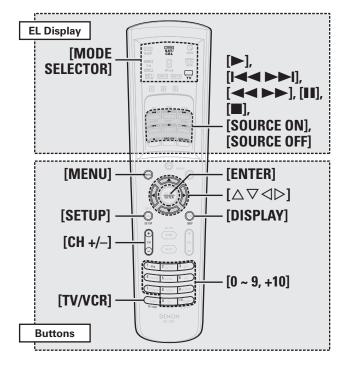
			EL Dis	play				
MODE SELECTOR		D	VD		VC	R	iPod	
Device Mode	DE	:V1	DE	V2	DEV1	DEV2	DEV1	
Device operated	DVD (Default setting)	DVD Recorder	CD (Default setting)	CD Recorder	VCR	ТАРЕ	iPod	
•	Playback	Playback	Playback	Playback	Playback	Playback	Playback/Pause	
	Auto search (cue)							
44 >>	Manual search (fast-reverse/ fast-forward)							
П	Pause	Pause	Pause	Pause	Pause	Pause	-	
	Stop							
SOURCE ON	Power on	Power on	-	– Power on		_	-	
SOURCE OFF	Power off	Power off	-	-	Power off	-	-	
			Butto	ons				
MENU	Menu/guide	Menu/guide	_	_	Menu/guide	-	Menu	
$\bigtriangleup \ \bigtriangledown \ \bigtriangleup \ \vartriangleright$	Cursor	Cursor	-	-	Cursor	-	Cursor	
ENTER	Enter setting	Enter setting	-	-	Enter setting	-	Enter	
SETUP/SEARCH	Set up	Set up	_			_	Page forward screen / Browse Remote mode switching (Pres and hold)	
RETURN	Return	Return	-	-	Cancel	-	Return	
CH + / SHUFFLE	_	_	_	_	Switch channels	_	1-track/album shuffle play	
CH - / REPEAT	_	-	-	_	Switch channels	_	1-track/all-track repeat play	
0 ~ 9, +10	Select track	Select track	Select track	Select track	-	_	-	
Special Remarks	(1).	2	(1	D	(1)	(1)	_	

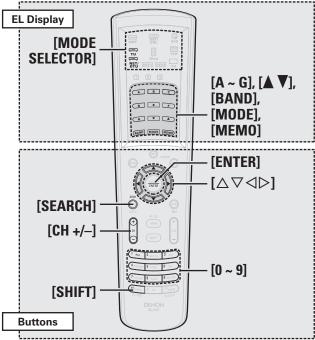
[Special Remarks]

① Only one component can be preset for each mode. If a new code is preset, the previous code is automatically cleared. (2) The names of the functions for the DVD remote control buttons differ from brand to brand. Check beforehand.

NOTE

Preset a DVD player or DVD recorder for the "DVD" (DEV1) mode. Preset a CD player or CD recorder for the "DVD" (DEV2) mode.
Preset a VCR for the "VCR" (DEV1) mode. Preset a tape deck for the "VCR" (DEV2) mode.





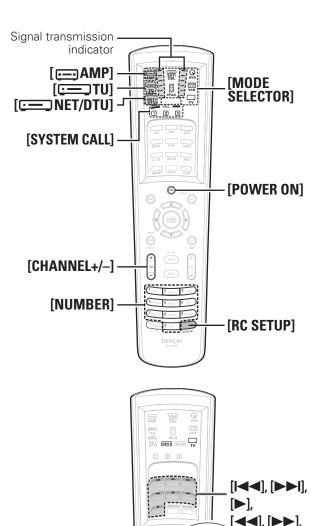
		EL Display			
MODE SELECTOR		ΓV	Satellite Rece	eiver / Cable TV	
Device Mode	DEV1	DEV2	DEV1	DEV2	
Device operated	TV (HITACHI)	TV (SONY)	SAT	SAT	
•					
44 >>	Punch through	Punch through	Punch through	Punch through	
11					
SOURCE ON	Power on	Power on	Power on	Power on	
SOURCE OFF	Power off	Power off	Power off	Power off	
	·	Buttons			
MENU	Menu/guide	Menu/guide	Menu/guide	Menu/guide	
$\bigtriangleup \ \bigtriangledown \ \bigtriangleup \ \trianglerighteq$	Cursor	Cursor	Cursor	Cursor	
ENTER	Enter setting	Enter setting	Enter setting	Enter setting	
SETUP	Set up	Set up	Set up	Set up	
DISPLAY	Display	Display	Display	Display	
CH + / -	Switch channels	Switch channels	Switch channels	Switch channels	
0 ~ 9, +10	Channel selection	Channel selection	Channel selection	Channel selection	
TV/VCR	Switch inputs	Switch inputs	-	-	
Special Remarks	1,3	1,3	1,3	1,3	

[Special Remarks]

① Only one component can be preset for each mode. If a new code is preset, the previous code is automatically cleared.

③ The CD, VCR or DVD buttons (one only set) can be assigned to the TV, satellite receiver and cable TV mode (*** page 80 "Punch Through Function").

		EL Display			
MODE SELECTOR	Т	U	NET	/ DTU	
Device Mode	DEV1	DEV2	DEV1	DEV2	
Device operated	Analog tuner	ХМ	NET / USB	HD Radio	
A ~ G	Preset memory block selection	Preset memory block selection	Preset memory block selection	Preset memory block selection	
	Tuning + / —	Channel selection	-	Tuning + / —	
BAND	AM/FM switching	-	-	AM/FM switching	
MODE	Switch search modes	-	-	Switch search modes	
MEMO	Preset memory registration	Preset memory registration	Preset memory registration	Preset memory registration	
		Buttons			
$\bigtriangleup \ \bigtriangledown \ \bigtriangleup \ \vartriangleright$	-	Category search	Cursor	Multicast switching ($\Delta abla$)	
ENTER	-	-	Enter, Playback/Pause	-	
SEARCH	RDS search	Direct search	Search	Multicast switching	
CH + / -	Preset channel selection	Preset channel selection	Preset channel selection	Preset channel selection	
0 ~ 9	Preset channel selection		Preset channel selection (1 ~ 8)	Preset channel selection (1 ~ 8)	
SHIFT	Switch memory block	Switch memory block	_	Switch memory block	



Setting the Remote ID

When using multiple DENON AV receivers in the same room, make this setting so that only the desired AV receiver operates.

Press [AMP] to set the main remote control unit to the AMP mode.

• Press and hold in [RC SETUP] for at least 3 seconds. The signal transmission indicator flashes twice.

Refer to the table at the right, and use [NUMBER] to

J input the 5-digit number corresponding to the remote ID to be changed.

The signal transmission indicator flashes twice.

Press [TU], [iPod] or [NET/DTU] to select the mode to **4** be set.

5 Repeat steps 2 to 4 to set the remote IDs for all modes.

MODE SELECTOR		TUT	NER		NET/DTU		
Remote ID	AMP (MAIN)	DEV1 (Analog TUNER)	DEV2 (XM)	iPod	DEV1 (Net Audio)	DEV2 (HD Radio)	
1 (Default)	81001	52863	52864	72815	62865	62840	
2	82001	52795	52812	72816	62837	62841	
3	83001	52800	52813	72817	62838	62842	
4	84001	52805	52814	72818	62839	62843	

[[]], []]

- When changing a setting, be sure to set the same remote ID as the AVR-5308Cl's (2 page 41).
- When changing the AMP mode's remote ID, also change the "TUNER," "iPod" and "NET/DTU" remote ID at the same time.
- Set the remote ID of an analog tuner for "TUNER" (DEV1), the XM remote ID for "DEV2

Learning Function

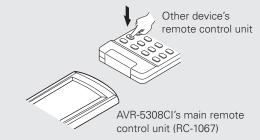
If your AV devices are of a brand other than DENON or if they cannot be operated with the preset memory function, their remote control signals can be transfered to stored in the AVR-5308Cl's main remote control unit.

Press [MODE SELECTOR] for the device you want to set.

• Press and hold in [RC SETUP] for at least 3 seconds. **Z** The signal transmission indicator flashes twice.

Bress [9], [7] and [5], in that order. The signal transmission indicator flashes twice and the learning mode is set.

- Press the button to be set.
- The main remote control unit's display turns off.
- * If a button that cannot be learned is pressed, the signal transmission indicator lights but the signal is not learned.
- Point the main remote control units directly at each \mathbf{O} other and press and hold the button on the other device's remote control unit that you want to learn. Once learning is completed normally, the display lights and the signal transmission indicator flashes twice.



- * If you want to learn other buttons, repeat steps 4 and 5.
- * The mode can be switched by pressing [MODE SELECTOR].
- * The signal transmission indicator lights once for a long time if learning was not possible

Press and hold in [RC SETUP] for at least 3 seconds. • The signal transmission indicator flashes twice and the setting is completed.

Getting Started

Connections

Setup

Playback

Remote Control

- With some remote control units, the signals cannot be learned or the device will not operate properly even when the signals have been learned. In this case, use the device's own remote control unit.
- Learned buttons have priority over the preset memory. If you no longer need the learned setting, reset the learning function (1277) page 81).

NOTE

- [HOME] cannot be learned.
- Do not learn any remote control signals at [RC SETUP].
- The AMP, ZONE2, ZONE3, ZONE4 and SYSTEM CALL modes cannot be learned.

System Call Function

This function lets you register a series of operations at a single button.

For example, the amplifier can be turned on, the input source selected, the monitor's power turned on, the source device's power turned on and the play mode set all by pressing a single button.

Up to 32 signals each can be registered at **[SYSTEM CALL]** (1, 2 or **3**).

Registering

1 Press [MODE SELECTOR] for the device you want to register.

2 Press and hold in [RC SETUP] for at least 3 seconds. The signal transmission indicator flashes twice.

Press [9], [7] and [8], in that order.

The signal transmission indicator flashes twice and the system call registration mode is set.

Press [SYSTEM CALL] (1, 2 or 3) at which you want to register the signals.

5 Press the buttons you want to register in the same sequence as the operations you want to perform.

The signal transmission indicator lights when a button is pressed.

Example : Press [POWER ON].

Press [MODE SELECTOR] – [DVD].

Press [▶].

* The mode can be switched by pressing [MODE SELECTOR].

* Perform the registration procedure for all the buttons you want to register.

6 Press and hold in [RC SETUP] for at least 3 seconds. The signal transmission indicator flashes twice and the setting is completed.

Calling out

Press [AMP], to select "SYSTEM CALL".

2 Press [SYSTEM CALL] (1, 2 or 3) at which the signals were registered.

The registered signals are transmitted in the registered sequence.

Punch Through Function

CD, DVD or VCR mode buttons can be stored at unused TV or SAT/CBL mode buttons. For example, when DVD mode buttons are assigned to the TV

mode, the DVD mode operations can be performed while in the TV mode.

Press [MODE SELECTOR] for the device you want to punch through (CD, DVD or VCR).

2	Press and hold in [RC SETUP] for at least 3 seconds.
2	The signal transmission indicator flashes twice.

9 Press [9], [8] and [4], in that order.

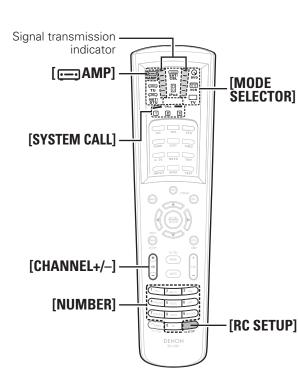
The signal transmission indicator flashes twice and the punch through setting mode is set.

Press [MODE SELECTOR] for the device you want to punch through (CD, DVD or VCR).

5 Press the button you want to punch through (\triangleright , \blacksquare , \blacksquare , $\bullet \triangleright$, $|\triangleleft \triangleleft$, $\triangleright \triangleright$ | or \blacksquare).

6 Press [MODE SELECTOR] for the equipment (TV or SAT/CBL) you want to set to punch-through.

7 Press and hold in [RC SETUP] for at least 3 seconds. The signal transmission indicator flashes twice and the setting is completed.



Setting the Time the Backlight Stays Lit

Press and hold in [RC SETUP] for at least 3 seconds. The signal transmission indicator flashes twice.

Press **[9]**, **[7]** and **[3]**, in that order.

The signal transmission indicator flashes twice and the backlight on time setting mode is set.

? Set the light on time.

The signal transmission indicator flashes twice.

[Settable times] : [1] : 5 sec.

- [2]: 10 sec. (Default)
- [3]: 15 sec.
- [4]: 20 sec.
- [5]: 25 sec.



Getting Started

Connections

Setup

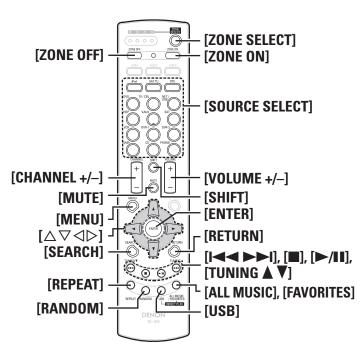
Playback

Remote Control

Multi-Zone

Sub Remote Control Unit Operations

- The sub remote control unit is equipped with frequently used buttons, so it can be used for simple remote control unit operations.
- The sub remote control unit can also be used for multi-zone, so you can use it to control the AVR-5308Cl from other rooms.
- The operations listed below can be performed with the sub remote control unit.
- Switching the input source
- Adjusting the volume
- Tuner (AM/FM), XM, HD Radio and iPod operations
- NET/USB direct play
- GUI menu and ZONE2 on-screen display operations
- Zone power on/off
- It is not possible to operate devices other than the amplifier.



Functions of Buttons by Component

Device operated	DVD, HDP, V.	, TV / CBL, AUX, SAT,	-			TUN (AM)	NER /FM)			_	TU Radio)	
Zone selection	М	Z2	Z3	Z4	М	Z2	Z3	Z4	M	Z2	Z3	Z4
ZONE SELECT	Zone c	peration	mode sel	ection	Zone	operation	mode sel	ection	Zone	operation	mode sel	ection
ZONE OFF	Po	ower turn	ed off (※	1)	F	Power turn	ed off (% 1)	F	ower turn	ned off (X*)
ZONE ON	Po	ower turn	ed on (X)	F	Power turn	ed on (% 1)	F	ower turr	ned on (Xí)
SOURCE SELECT	Inpu	t source s	election	(*2)	Input	source sel	ection	-	Input :	source se	lection	-
CHANNEL + / -		_			Preset	channel se	election	-	Preset	channel se	election	-
SHIFT	-				Preset channel memory block selection				channel n ock select		-	
VOLUME + / -	Adjustme	nt of volu	ime (% 1)	-	Adjustm	ent of volu	ume (※ 1)	-	Adjustm	ent of volu	ume (% 1)	-
MUTE	M	luting (※ 1)	-	1	Muting (¥1) –			Muting (% 1)			-
MENU	Select	ed zone r	menu	_	Selec	cted zone i	menu	-	Selec	ted zone	menu	-
$\bigtriangleup \ \bigtriangledown \ \bigtriangleup \ \vartriangleright$		-				-	-		Multicas	t switchin	g (∆ ▽)	-
SEARCH		-				RDS s	search		Mult	icast swit	ching	-
I◀◀ ▶►I, TUNING ▲ ▼		-	-			Tuning		-		Tuning		
USB		% 3		-		% 3		-	*3			-
ALL MUSIC * (Music server only)		% 4		_		※ 4		_	*4		_	
FAVORITES *		※ 5		-		% 5		_		*5		-

*1: Affects the currently selected zone.

*2: In ZONE4, it is not possible to select "XM", "HD Radio", or sources with no digital input signals ("TUNER", "PHONO", "iPod", etc.). Network audio signals (Internet radio, music server, USB) can be played as long as they are not copyright-protected.

*3: The input source switches to "NET/USB" and the files on the USB memory device are played.

*4: The input source switches to "NET/USB" and the files in "All Music" on the music server are played.

*5: The input source switches to "NET/USB" and the files in "Favorites" are played.

*: Whether "All Music" or "Favorites" is selected depends on the "Direct Play" setting (127) page 47).

DIRECT PLAY button

• Playback is possible in the mode selected at GUI menu "Source Select" – "NET/USB" – "Playback Mode" – "Direct Play".

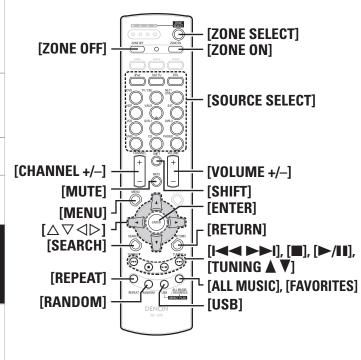
FAVORITES: Playback starts from the first track registered in the favorites.

ALL MUSIC: Playback starts from the first track registered in the "All Music" folder.

• When **[USB]** is pressed, playback starts from the first track on the USB memory device.

NOTE

When the music server is stopped or restarted, it may no longer be possible to play tracks stored in the favorites.



Device operated		SAT (X				NET / US	SB			iPod				
Zone selection	М	Z2	Z3	Z4	М	Z2	Z3	Z4	М	Z2	Z3	Z4		
ZONE SELECT	Zone	operation	mode sel	ection	Zone o	peration m	ode sele	ection	Zone	operation	mode sele	ction		
ZONE OFF	F	ower turn	ed off (% 1)	Po	wer turned	off (※ 1)	P	ower turn	ed off (※ 1)	1		
ZONE ON	F	Power turr	ed on (% 1)	Pc	wer turned	on (% 1)	P	ower turn	ed on (※ 1)			
SOURCE SELECT	Input s	source se	ection	-	Input	source sel	ection (% 2)	Input	source se	lection	-		
CHANNEL + / -	Preset	channel se	election	-	Pres	set channel	selectio	on		_	_			
SHIFT		channel n ock select	,	_		-				-	_			
VOLUME + / -	Adjustm	ent of volu	ume (% 1)	-	Adjustme	nt of volum	ne (% 1)	-	Adjustm	ent of vol	ume (% 1)	_		
MUTE	N	/luting (X)	-	M	luting (% 1)		_	١	Vuting (X	1)	_		
MENU	Selec	ted zone	menu	-	Select	ed zone m	enu	-	Selec	_				
$\bigtriangleup \ \bigtriangledown \ \bigtriangleup \ \vartriangleright$	Cat	egory sea	ırch	-	File	File operations –			File operations			_		
ENTER		-	-		File operations –				File operations			_		
SEARCH	Dir	rect acces	s of chanı	nel	Page forward screen / Character search			Page forward screen / Browse/Remote mode switching (press and hold)		_				
RETURN		-	_		File	operations	\$	_	Fil	le operatio	ons	_		
I⊲⊲ ►►I, TUNING ▲ ▼	Cha	nnel selec	tion	_		Track sea	arch		Track search			_		
		-	_			Stop				Stop		_		
►/II		-	_			Play/pau	ise			Play/paus	е	_		
REPEAT		-				ck/all-track i ISB / Media			1-track/a	all-track re	peat play	_		
RANDOM		-	-		Random	play (USB ,	' Media	server)	Song/a	lbum shu	ffle play	_		
USB		% 3		-		% 3				% 3		_		
ALL MUSIC * (Music server only)		※ 4		_		※ 4			*4			_		
FAVORITES *		₩5		-		※ 5				*5				

*1: Affects the currently selected zone.

*2: In ZONE4, it is not possible to select "XM", "HD Radio", or sources with no digital input signals ("TUNER", "PHONO", "iPod", etc.). Network audio signals (Internet radio, music server, USB) can be played as long as they are not copyright-protected.

*3: The input source switches to "NET/USB" and the files on the USB memory device are played.

*4: The input source switches to "NET/USB" and the files in "All Music" on the music server are played.

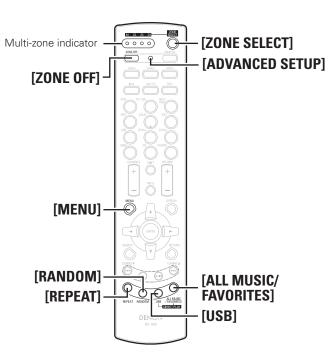
*5: The input source switches to "NET/USB" and the files in "Favorites" are played.

*: Whether "All Music" or "Favorites" is selected depends on the "Direct Play" setting (@ page 47).

Getting Started

Connections

Setup



Switching Zones

Use this procedure to select the zone to be operated by the sub remote control unit.

Press [ZONE SELECT]. The currently selected multi-zone indicator lights.

2 While the multi-zone indicator is light, press [ZONE SELECT] to select the zone to be operated. The currently selected multi-zone indicator lights.

Setting the Zone for Which the Sub Remote Control Unit is Used (ZONE SELECT LOCK Mode)

We recommend always using the sub remote control unit for the same room. When this is done, the unit can be set so that the zone does not switch when buttons are operated.

Use the tip of a pen to press [ADVANCED SETUP]. All the multi-zone indicators light.

Select the multi-zone to be set.

The selected multi-zone indicator lights. To set to "MAIN ZONE": Press [REPEAT]. To set to "ZONE2" Press [RANDOM]

Z TO SET TO ZUNEZ	: Press [kanduwi].
3)To set to "ZONE3"	: Press [USB] .
To set to "ZONE4"	: Press [ALL MUSIC/FAVORITES]

3 Use the tip of a pen to press [ADVANCED SETUP]. The multi-zone indicator turns off.

To Cancel

1 Use the tip of a pen to press [ADVANCED SETUP]. The currently selected multi-zone indicator lights.

Press [ZONE SELECT].

All the multi-zone indicators light.

3 Use the tip of a pen to press [ADVANCED SETUP]. The multi-zone indicator turns off.

Setting the Remote ID

When using multiple DENON AV receivers in the same room, make this setting so that no AV receiver other than the desired one operates.

While pressing [MENU], press [ADVANCED SETUP] with the tip of a pen.

The multi-zone indicator corresponding to the currently selected remote ID flashes.

9 Select the remote ID to be set.

 To set to 1 : Press [REPEAT]. The "M" indicator flashes.
 To set to 2 : Press [RANDOM]. The "Z2" indicator flashes.
 To set to 3 : Press [USB]. The "Z3" indicator flashes.
 To set to 4 : Press [ALL MUSIC/FAVORITES]. The "Z4" indicator flashes.

Q While pressing [MENU], press [ADVANCED SETUP]

with the tip of a pen. The multi-zone indicator turns off.

NOTE

When changing a setting, be sure to set the same remote ID as the AVR-5308CI's (1) page 41).

Resetting the Settings

While pressing [ZONE OFF], press [ADVANCED SETUP] with the tip of a pen.

All the multi-zone indicators flash 4 times, then all the settings are restored to their defaults.

Getting Started

Amp Assign / Multi Zone Connections and Operations

The AVR-5308CI is compatible with the following types of playback:

- Multi-zone playback (ZONE2 & ZONE3)
- Bi-amp playback (front speaker)
- Bi-wiring playback (front speaker)

NOTE

- For bi-amp and bi-wiring playback, use speakers compatible with that type of connection.
- When conducting bi-amp or bi-wiring playback, remove the short-circuiting boards (or wires) from the speaker terminals.

Multi-Zone Settings with the Amp Assign Function

The amp assign function lets you assign the amplifiers for the different channels built into the AVR-5308CI to the speaker outputs for the different zones.

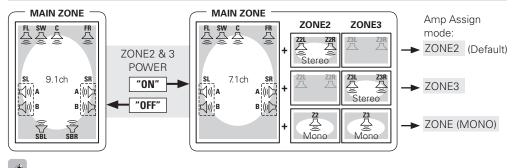
Select the desired playback environment from among "Setting 1" to "Setting 8," then set the corresponding "Amp Assign" mode at GUI menu "Manual Setup" – "Option Setup" – "Amp Assign" (@ page 40). Connect the speakers as described at "Speaker connections".

With "Setting 1", "Setting 2", "Setting 5", it is possible to switch the Amp Assign mode between the 9.1 / 7.1-channel mode and the multi-zone mode without changing the speaker connections.

Setting 1: With this setting it is possible to switch between the following two playback modes. **●9.1-channel playback**

• Multi-zone playback

- 7.1-channel playback + ZONE2 or ZONE3 stereo playback
- - tcning ······ZUNEZ UN/UFF buπon, ZUNE3 UN/UFF bu



Both A and B can be installed for SR and SL.

□ Speaker connections

Speaker terminal	FRC	DNT	CENTER	SUF	R-A	SU BA	RR. .CK	SURR-E ASS		AN ASSI	ЛР GN-2
	R	L		R	L	R	L	R	L	R	L
Speaker to connect	FR	FL	С	SR-A	SL-A	SBR	SBL	SR-B	SL-B	Z2R Z3R Z3 (MONO)	Z2L Z3L Z2 (MONO)

Channels outputting to the various speaker terminals

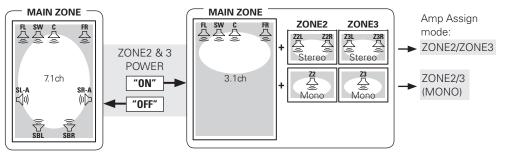
Speaker terminal	Status	FRC	DNT	CENTER	SUF	R-A	SU BA	RR. .CK		R-B / SSIGN	Al ASSI	ИР GN-2
Amp Assign mode	ZONE2 & ZONE3	R	L		R	L	R	L	R	L	R	L
ZONE2											Z2R	Z2L
ZONE3	ON	FR	FL	С	SR-A	SL-A	-	-	SR-B	SL-B	Z3R	Z3L
ZONE (MONO)											Z3 (MONO)	Z2 (MONO)
ZONE2												
ZONE3	OFF	FR	FL	С	SR-A	SL-A	SBR	SBL	SR-B	SL-B	-	-
ZONE (MONO)												

Setting 2: With this setting it is possible to switch between the following two playback modes.

•7.1-channel playback

• Multi-zone playback

- 3.1-channel playback + ZONE2 stereo playback + ZONE3 stereo playback
- 3.1-channel playback + ZONE2 monaural playback + ZONE3 monaural playback
- SwitchingZONE2 ON/OFF button, ZONE3 ON/OFF button



A

- When the ZONE2 ON/OFF button is set to "ON" and the ZONE3 ON/OFF button is set to "OFF", the MAIN ZONE is set to 5.1-channel playback.
- When the **ZONE3 ON/OFF** button is set to "ON," the MAIN ZONE is set to 3.1-channel playback.

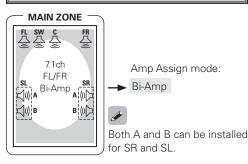
□ Speaker connections

Speaker terminal	FRO	DNT	CENTER	SUF	R-A	SU BA	RR. .CK	SURR-E ASS		AN ASSI	
	R	L		R	L	R	L	R	L	R	L
Speaker to connect	FR	FL	С		CI A	CDD	SBL	Z3R	Z3L	Z2R	Z2L
			C	SU-A	SL-A	3DN	SDL	Z3 (M	ONO)	Z2 (M	ONO)

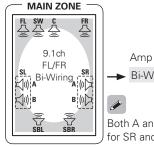
Channels outputting to the various speaker terminals

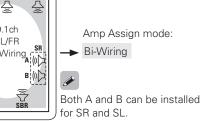
Speaker terminal	Status	FRC	DNT	CENTER		R-A	SU BA	RR. .CK		R-B / .SSIGN	AN ASSI	
Amp Assign mode	ZONE2 & ZONE3	R	-	R	L	R	L	R	L	R	L	
ZONE2/3 ZONE2/3 (MONO)	ON	FR	FL	С	_	_	-	_	Z3R Z3 (M	Z3L ONO)	Z2R Z2 (M	Z2L ONO)
ZONE2/3 ZONE2/3 (MONO)	OFF	FR	FL	С	SR-A	SL-A	SBR	SBL	_	_	-	-

Setting 3: Making bi-amp connections for the FL and FR channels in the MAIN ZONE and conducting 7.1channel playback (switching with other modes not possible)



Setting 4: Making bi-wiring connections for the FL and FR channels in the MAIN ZONE and conducting 9.1channel playback (switching with other modes not possible)





□ Speaker connections

Amp Assign mode	Speaker terminal	FRC	DNT	CENTER	SUF	R-A		RR. CK		3 / AMP IGN	AN ASSI	ИР GN-2
mode	terrindi	R	L		R	L	R	L	R	L	R	L
Bi-Amp	Speaker to	FR	FL	С	SR-A	SL-A	_	_	SR-B	SL-B	FR FL/ Bi-A conne	mp
Bi-Wiring	connect	FR	FL	С	SR-A	SL-A	SBR	SBL	SR-B	SL-B	FR FL/ Bi-W conne	/iring

Channels outputting to the various speaker terminals

Speaker terminal	FRC	DNT	CENTER	SUF	R-A		RR. CK	SURR-E ASS	3 / AMP IGN	AN ASSI	ИР GN-2
Assign mode	R	L		R	L	R	L	R	L	R	L
Bi-Amp	FR	FL	С	SR-A	SL-A	_	_	SR-B	SL-B	Bi-Á	FL /FR Amp ection
Bi-Wiring	FR	FL	С	SR-A	SL-A	SBR	SBL	SR-B	SL-B	Bi-W	FL /FR /iring ection

Connections Setup Playback Remote Control Multi-Zone Information Troubleshooting

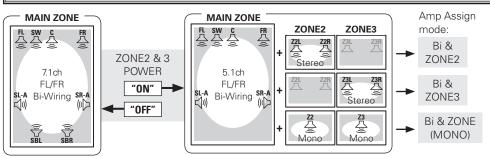
Getting Started

86

7.1-channel playbackMulti-zone playback

- 5.1-channel playback + ZONE2 or ZONE3 stereo playback with bi-wiring connections
- 5.1-channel playback + ZONE2 monaural playback + ZONE3 monaural playback with bi-wiring connections

SwitchingZONE2 ON/OFF button, ZONE3 ON/OFF button



Both A and B can be installed for SR and SL.

Speaker connections

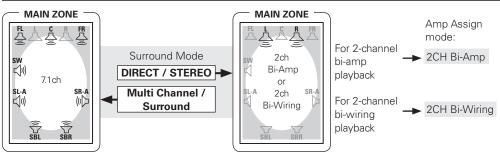
Speaker terminal	FRC	DNT	CENTER	SUF	R-A	SU BA	RR. CK		3 / AMP SIGN	AN ASSI	ИР GN-2
	R	L		R	L	R	L	R	L	R	L
Speaker to connect	FR	FL	С	SR-A	SL-A	SBR	SBL	FR FL/ Bi-W conne	/iring	Z2R Z3R Z3 (MONO)	Z2L Z3L Z2 (MONO)

Channels outputting to the various speaker terminals

Speaker terminal	Status	FRC	DNT	CENTER		R-A	SU BA	RR. .CK	SUR AMP A	R-B / SSIGN	AN ASSI	
Amp Assign mode	ZONE2 & ZONE3	R	L		R	L	R	L	R	L	R	L
Bi & ZONE2									FR	FL	Z2R	Z2L
Bi & ZONE3	ON	FR	FL	С	SR-A	SL-A	-	-		/FR /iring	Z3R	Z3L
Bi & ZONE (MONO)										ection	Z3 (MONO)	Z2 (MONO)
Bi & ZONE2									FR	FL		
Bi & ZONE3	OFF	FR	FL	С	SR-A	SL-A	SBR	SBL		/FR /iring	-	-
Bi & ZONE (MONO)										ection		

- Setting 6: With this setting it is possible to switch between the following two playback modes.
- 7.1-channel playback
- Switching between bi-amp and bi-wiring playback using speakers exclusively for 2-channel playback

SwitchingSurround Mode switching



Speaker connections

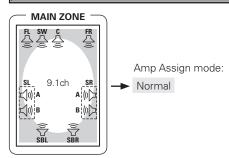
Speaker terminal	FRC	DNT	CENTER	SUF	R-A	SU BA	RR. .CK	SURR-E ASS	3 / AMP SIGN		ЛР GN-2
	R	L		R	L	R	L	R	L	R	L
Speaker to connect								R	L	R	L
	FR	FL	С	SR-A	SL-A	SBR	SBL		/R Bi-An c R Bi-Wir	or	

Channels outputting to the various speaker terminals

Speaker terminal	Status	FRC	ONT	CENTER	SUF	R-A	SU BA	RR. .CK	SUR AMP A		AN ASSI	ИР GN-2
Amp Assign mode	Surround Mode	R	L		R	L	R	L	R	L	R	L
									R	L	R	L
2CH Bi-Amp	DIRECT /								2ch L/	R Bi-An	np conne	ection
	STEREO	-	-	-	-	-	-	-	R	L	R	L
2CH Bi-Wiring									2ch L/F	R Bi-Wiri	ing conn	ection
2CH Bi-Amp	Multi Channel /	FR	FL	С	SB-V	SI _A	SBR	SBI	_			
2CH Bi-Wiring	Multi Channel / Surround	111			511-A	JL-A	1001	JDL	_		_	_

Getting Started

Setting 7: •9.1-channel playback



Speaker connections

Speaker terminal	FRC	DNT	CENTER	SUF	R-A	SU BA	RR. .CK		3 / AMP SIGN	AN ASSI	ИР GN-2
	R	L		R	L	R	L	R	L	R	L
Speaker to connect	FR	FL	С	SR-A	SL-A	SBR	SBL	SR-B	SL-B	_))

Channels outputting to the various speaker terminals

Speaker terminal	FRC	DNT	CENTER	SUF	≀R-A	SU BA	RR. .CK	SUR AMP A		AMP AS	SIGN-2
Amp Assign mode	R	L		R	L	R	L	R	L	R	L
Normal	FR	FL	С	SR-A	SL-A	SBR	SBL	SR-B	SL-B	-	_

Setting 8: • Free assign

□ Amp Assign mode setting and speakers connected to the various speaker terminals

Speaker terminal	FRC	DNT	CENTER	SUF	R-A	SURR	.BACK		R-B / SSIGN	AN ASSI	ЛР GN-2
Amp Assign mode	R	L		R	L	R	L	R	L	R	L
	FL	FL	FL	FL	FL	FL	FL	-	-	-	-
	FR	FR	FR	FR	FR	FR	FR	-	-	-	-
	С	С	С	С	С	С	С	-	-	-	-
	SL-A	SL-A	SL-A	SL-A	SL-A	SL-A	SL-A	-	-	_	-
	SR-A	SR-A	SR-A	SR-A	SR-A	SR-A	SR-A	-	-	-	-
	SL-B	SL-B	SL-B	SL-B	SL-B	SL-B	SL-B	-	-	-	-
Free Assign	SR-B	SR-B	SR-B	SR-B	SR-B	SR-B	SR-B	-	-	-	-
	SBL	SBL	SBL	SBL	SBL	SBL	SBL	-	-	_	-
	SBR	SBR	SBR	SBR	SBR	SBR	SBR	-	-	-	-
	Z2L	Z2L	Z2L	Z2L	Z2L	Z2L	Z2L	-	_	_	-
-	Z2R	Z2R	Z2R	Z2R	Z2R	Z2R	Z2R	-	_	_	-
	Z3L	Z3L	Z3L	Z3L	Z3L	Z3L	Z3L	-	-	_	-
	Z3R	Z3R	Z3R	Z3R	Z3R	Z3R	Z3R	-	-	_	-

***** The above is an example of the selectable channels when "Stereo" is set for the ZONE2 and ZONE3 channel setting.

If "Mono" is selected, "Z2 (MONO)" and "Z3 (MONO)" are displayed.

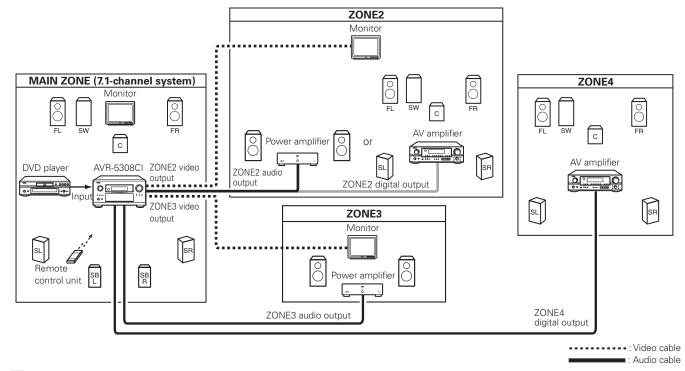
Getting Started

Multi-Zone Settings and Operations

• For ZONE2, it is necessary to set in sequence with the signal connected to either the power amplifier or bit stream amps.

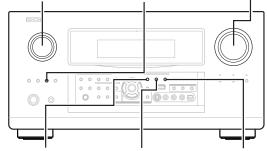
- The amp should be the power amplifier in the case of ZONE3, and the bit-stream for ZONE4.
- If the signal inputted to ZONE2 is analog, change to PCM(2-channel) signal, and output it from ZONE2 optical output connectors.

	Connectors for audio output	Audio signals	Connectors for video output
ZONE2	ZONE2 PRE OUT	Stereo	ZONE2 VIDEO OUT, ZONE2 S-VIDEO OUT,
ZONEZ	ZONE2 OPTICAL OUT	Bit-stream	ZONEZ S-VIDEO OUI, ZONE2 COMPONENT VIDEO OUT
ZONE3	ZONE3 PRE OUT	Stereo	ZONE3 VIDEO OUT
ZONE4	ZONE4 OPTICAL4 OUT	Bit-stream	_

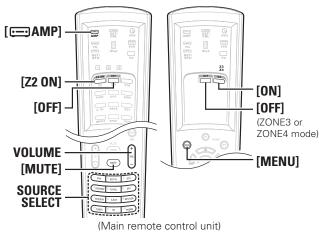


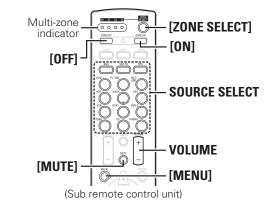
- When only using one speaker for ZONE2 or ZONE3, set to "Mono". In this case, the ZONE2 (ZONE3) monaural output is output from the ZONE2 (ZONE3) pre-out L and R connectors, so connect as desired.
- Separate power amplifiers are needed for ZONE2 and ZONE3.

SOURCE SELECT <ZONE2/3/4/ REC SELECT> VOLUME



<ZONE2 ON/OFF> <ZONE3 ON/OFF> <ZONE4 ON/OFF>





About the button names in these explanations

- < > : Buttons on the main unit
- [] : Buttons on the remote control unit

Button name only:

Buttons on the main unit and remote control unit

Multi-Zone Operations

Turning the Power On and Off

[Operation on the main unit]

Press <ZONE2 ON/OFF>, <ZONE3 ON/OFF> or <ZONE4 ON/OFF> for the zone to be operated.

When the power turns on, the multi-zone indicator lights on the display.

[Operation on the remote control unit]

In the zone mode you want to operate, press [ON] or [OFF].

Selecting the Input Source

[Operation on the main unit]

Press <ZONE2/3/4 / REC SELECT> and select the zone to be adjusted.
 Turn <SOURCE SELECT>.

[Operation on the remote control unit]

In the zone mode you want to operate, press [SOURCE SELECT].

Adjusting the Volume

[Operation on the main unit]

Press <ZONE2/3/4 / REC SELECT> and select the zone to be adjusted.
 Turn <VOLUME> to adjust.

[Operation on the remote control unit]

In the zone mode whose volume you want to adjust, press [VOLUME].

[Variable range] --- -70dB ~ -40dB ~ 18dB

- The volume can be adjusted when GUI menu "Manual Setup" "Zone Setup" "(select the zone)" "Volume Level" is set to "Variable". The volume can be increased up to the value set at GUI menu "Manual Setup" "Zone Setup" "(select the zone)" "Volume Limit" (127 page 39).
- The volume for ZONE2 and ZONE3 can be adjusted with the remote control unit.

Turning off the Sound Temporarily

In the zone mode for which you want to mute the sound, press **[MUTE]**.

The sound is reduced to the level set at GUI menu "Manual Setup" – "Zone Setup" – "(select the zone)" – "Mute Level" (127 page 39). To cancel, either adjust the volume or press [MUTE] again. The setting is canceled when the zone's power is turned off.

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- The source selected for ZONE3 is also output from the recording output connectors.
- When the **[MENU]** is selected, it is possible to carryout "Zone Setup" looking at the on-screen display in ZONE2. Also, when the "OSD" is set as "ZONE2/ZONE3", the on-screen display comes on the ZONE2 monitor when ZONE3 has been operated so it is possible to operate it looking at this.

ZONE2 MENU				
INPUT :DVD SIGNAL:ANALOO VOL. :-40dB	G		ZONE 2 MENU Channel Vol. Lev.	<pre></pre>
>Bass Treble HPF Lch Lev. I Rch Lev.		0 d B I 0 d B I OF F I 0 d B I 0 d B I	Vol. Limit P. On Lev. Mute Lev.	 OFF ▶ LAST▶ FULL▶

NOTE

- When connected to the component video output connectors, the on-screen display is not displayed.
- The digital signal from the digital input connectors (OPTICAL/ COAXIAL) are output to the analog audio connectors in ZONE2 and ZONE3 in the case of PCM (2-channel) signals only.
- Digital audio signals input from the DENON LINK or HDMI connectors cannot be played in multi-zone.
- "XM" or "HD Radio" cannot be selected with digital output (OPTICAL) in ZONE2. Copyright-protected Network audio signals (Internet radio, music server, USB, Rhapsody) cannot be output.
- In ZONE4, it is not possible to select "XM", "HD Radio", or sources with no digital input signals ("TUNER", "PHONO", "iPod", etc.). Network audio signals (Internet radio, music server, USB, Rhapsody) can be played as long as they are not copyright-protected.
- When certain digital signals are being input, noise may be output from the ZONE2 and ZONE3 audio output connectors.

Getting Started

Connections

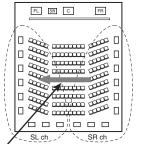
Other Information

About Speaker Installation

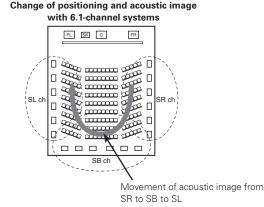
Surround back speakers

The THX Surround EX format adds new "Surround Back" (SB) channels to the conventional 5.1 channel system. This makes it easy to achieve sound positioned directly behind the listener, something that was previously difficult with sources designed for conventional multi surround speakers. In addition, the acoustic image extending between the sides and the rear is narrowed, thus greatly improving the expression of the surround signals for sounds moving from the sides to the back and from the front to the point directly behind the listening position.

Change of positioning and acoustic image with 5.1-channel systems



Movement of acoustic image from SR to SL



In addition to sources recorded in 6.1-channels, the surround effect of conventional 2- to 5.1-channel sources can also be enhanced.

Speaker(s) for one or two channels are required in order to achieve a THX Surround EX system with the AVR-5308CI. Adding these, however, allows you to achieve stronger surround effects not only with sources recorded in THX Surround EX, but also with conventional 2- to 5.1 channel sources. The WIDE SCREEN mode is a mode for achieving surround sound with up to 7.1 channels using surround back speakers, for sources recorded in conventional Dolby Surround as well as Dolby Digital 5.1 channel and DTS Surround 5.1 channel sources. Furthermore, all the DENON original surround modes (PP page 49) are compatible with 7.1 channel playback, so you can enjoy 7.1 channel sound with any signal source.

Number of surround back speakers

With THX Surround EX, the surround back channel consists of one channel of playback signals, but we recommend using two speakers. The modes that use the new ASA technology from THX (127 page 94) are most effective when using two monopole type surround back speakers placed close together.

Using two speakers results in a smoother blend with the sound of the surround channels and better sound positioning of the surround back channel when listening from a position other than the center.

Placement of the surround left and right channels when using surround back speakers

Using surround back speakers greatly improves the positioning of the sound at the rear. Because of this, the surround left and right channels play an important role in achieving a smooth transition of the acoustic image from the front to the back. As shown on the diagram above, in a movie theater the surround signals are also produced from diagonally in front of the listeners, creating an acoustic image as if the sound were floating in space.

To achieve these effects, we recommend placing the speakers for the surround left and right channels slightly more towards the front than with conventional surround systems. Doing so sometimes increases the surround effect when playing conventional 5.1 channel sources in the THX Surround EX mode. Check the surround effects of the various modes before selecting the surround mode.

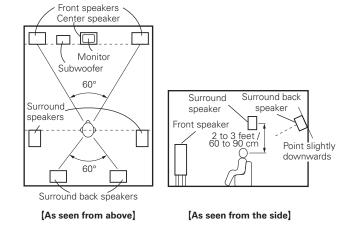
Examples of speaker layouts

Below we introduce examples of speaker layouts. Refer to these to arrange your speakers according to their type and how you want to use them.

[1] For THX surround EX systems (Using surround back speakers)

1 When mainly playing movies

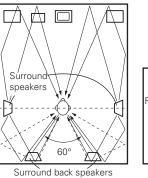
Recommended when your surround speakers are single or 2-way speakers.

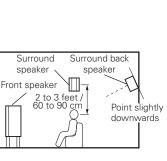


② Setting for primarily watching movies using diffusion type speakers for the surround speakers

For the greatest sense of surround sound envelopment, diffuse radiation speakers such as bipolar (THX) types, or dipolar types, provide a wider dispersion than is possible to obtain from a direct radiating speaker (monopolar). Place these speakers at either side of the prime listening position, mounted above ear level.

Path of the surround sound from the speakers to the listening position





[As seen from above]

[As seen from the side]

③ When playing movies and music

To activate the appropriate speakers for movies and music, we suggest that during setup, choose Dolby Digital/DTS with THX and Surround Speakers A (the bipolar or dipolar speakers mounted at the sides of the listening position).

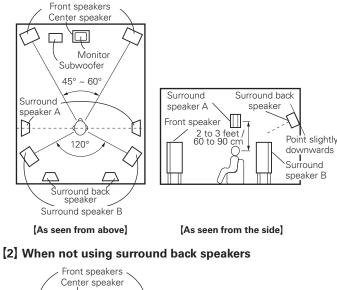
Choose Dolby Digital/DTS without THX and Surround Speakers B (the direct radiating speakers mounted at the rear corners of the listening room). Then, by simply activating the THX function (used during movie playback, the Surround A speakers are automatically activated. For multi-channel music listening (Dolby Digital or DTS music programs), turn off the THX enhancements by touching the THX button on the remote control, and the Surround B speakers will be automatically activated.

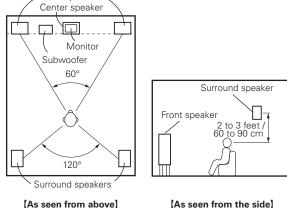
Example: Movie sources (Dolby, DTS Surround, etc.) "THX" or "THX Cinema" mode ... Speakers A Music sources (DVD video, DTS CD, etc.)

"Dolby/DTS Surround" ... Speakers B

Dolby/DTS Sufformed at the toy of a

The speakers can be switched at the touch of a button by turning HOME THX CINEMA on when playing movies and off when playing multi-channel music.





Surround

The AVR-5308CI is equipped with a digital signal processing circuit that lets you play program sources in the surround mode to achieve the same sense of presence as in a movie theater.

Dolby Surround

Dolby Digital

Dolby Digital is a multichannel digital signal format developed by Dolby Laboratories.

A total of 5.1-channels are played: 3 front channels ("FL", "FR" and "C"), 2 surround channels ("SL" and "SR") and the "LFE" channel for low frequencies.

Because of this, there is no crosstalk between channels and a realistic sound field with a "three-dimensional" feeling (sense of distance, movement and positioning) is achieved.

A real, overpowering sense of presence is achieved when playing movie sources in AV rooms as well.

Dolby Digital Plus

Dolby Digital Plus is an improved Dolby Digital signal format that is compatible with up to 7.1-channels of discrete digital sound and also improves sound quality thanks to extra data bit rate performance. It is upwardly compatible with conventional Dolby Digital, so it offers greater flexibility in response to the source signal and the conditions of the playback equipment.

Dolby TrueHD

Dolby TrueHD is a high definition audio technology developed by Dolby Laboratories, using lossless coding technology to faithfully reproduce the sound of the studio master.

This format is compatible with a maximum sampling frequency of 96 kHz and up to 7.1-channels, so it is used for applications particularly prioritizing sound quality.

Getting Started

Dolby Pro Logic II

Dolby Pro Logic II is a matrix decoding technology developed by Dolby Laboratories.

Regular music such as that on CDs is encoded into 5-channels to achieve an excellent surround effect.

The surround channel signals are converted into stereo and full band signals (with a frequency response of 20 Hz to 20 kHz or greater) to create a "three-dimensional" sound image offering a rich sense of presence for all stereo sources.

Dolby Pro Logic IIx

Dolby Pro Logic IIx is a further improved version of the Dolby Pro Logic II matrix decoding technology.

Audio signals recorded in 2-channels are decoded to achieve a natural sound with up to 7.1-channels.

There are 3 modes: "Music" suited for plaving music, "Cinema" suited for plaving movies, and "Game" which is optimized for plaving games.

Dolby Headphone

This is a three-dimensional sound technology developed jointly by Dolby Laboratories and Lake Technology Ltd. of Australia for achieving surround sound using regular headphones.

Previously, when using headphones all the sounds resonated inside the head and it was uncomfortable to listen with headphones for long periods of time. Dolby Headphone simulates speaker playback in a room and places the sound at the front or the sides, outside the head, to achieve a powerful sound like the sound of movie or home theaters. This technology is mainly for multichannel audio/video equipment with Dolby Digital or Dolby Pro Logic Surround decoding functions and works with a high performance digital signal processing (DSP) chip. Dolby Headphone is effective not only for multichannel sources but also for stereo programs.

On the AVR-5308CI, it is possible to output signals encoded in the Dolby Headphone mode from the recording output terminal and record them on a separate recorder.

*** Sources recorded in Dolby Surround**

Sources recorded in Dolby Surround are indicated with the following logo marks.

Dolby Surround support mark : DC DOLBY SURROUND

Manufactured under license from Dolby Laboratories. "Dolby", "Pro Logic" and the double-D symbol are trademarks of Dolby Laboratories.

DTS Surround

DTS Digital Surround

DTS Digital Surround is the standard digital surround format of DTS, Inc., compatible with a sampling frequency of 44.1 or 48 kHz and up to 5.1-channels of digital discrete surround sound.

DTS-HD High Resolution Audio

DTS-HD High Resolution Audio is an improved version of the conventional DTS. DTS-ES and DTS 96/24 signals formats, compatible with sampling frequencies of 96 or 48 kHz and up to 7.1-channels of discrete digital sound. High data bit rate performance provides high quality sound. This format is fully compatible with conventional products, including conventional DTS digital surround 5.1-channel data.

DTS-HD Master Audio

DTS-HD Master Audio is DTS. Inc's lossless audio format compatible with up to 96 kHz/7.1-channels. The lossless audio coding technology faithfully reproduces the sound of the studio master. It is fully compatible with conventional products, including conventional DTS digital surround 5.1-channel data.

DTS-ES[™] Discrete 6.1

DTS-ES[™] Discrete 6.1 is a 6.1-channel discrete digital audio format adding a surround back (SB) channel to the DTS digital surround sound. Decoding of conventional 5.1-channel audio signals is also possible according to the decoder.

DTS-ES[™] Matrix 6.1

DTS-ES™ Matrix 6.1 is a 6.1-channel discrete digital audio format inserting a surround back (SB) channel to the DTS digital surround sound through matrix encoding. Decoding of conventional 5.1-channel audio signals is also possible according to the decoder.

DTS NEO:6[™] Surround

DTS NEO:6[™] is a matrix decoding technology for achieving 6.1channel surround playback with 2-channel sources. It includes "DTS NEO:6 CINEMA" suited for plaving movies and "DTS NEO:6 MUSIC" suited for playing music.

DTS 96/24

DTS 96/24 is a digital audio format enabling high sound guality playback in 5.1-channels with a sampling frequency of 96 kHz and 24 bit quantization on DVD-Video.

Manufactured under license under U.S. Patent #'s: 5.451.942: 5.956.674; 5.974.380; 5.978.762; 6.226.616; 6.487.535 & other U.S. and worldwide patents issued & pending. DTS is a registered trademark and the DTS logos, Symbol, DTS-HD and DTS-HD Master Audio are trademarks of DTS, Inc.© 1996-2007 DTS, Inc. All Rights Reserved.

Home THX Cinema Surround

THX is an exclusive set of standards and technologies established by the world-renowned film production company, Lucasfilm Ltd. THX grew from George Lucas' personal desire to make your experience of the film soundtrack, in both movie theaters and in your home theater, as faithful as possible to what the director intended.

Movie soundtracks are mixed in special movie theaters called dubbing stages and are designed to be played back in movie theaters with similar equipment and conditions. The soundtrack created for movie theaters is then transferred directly onto Laserdisc, VHS tape, DVD, etc., and is not changed for playback in a small home theater environment.

THX engineers developed patented technologies to accurately translate the sound from the movie theater environment into the home, correcting the tonal and spatial errors that occur. On the AVR-5308Cl, when the Home THX Cinema mode is on, THX post-processing is automatically added after the Dolby Pro Logic. Dolby Digital or DTS decoder:

Re-EQ[™] (Re-Equalization)

The tonal balance of a film soundtrack will be excessively bright and harsh when played back over audio equipment in the home because film soundtracks are designed to be played back in large movie theaters using very different professional equipment. Re-Equalization restores the correct tonal balance for listening to a movie soundtrack in a normal home environment.

Getting Started

Connections

Setup

Playback

Timbre Matching[™]

The human ear changes our perception of a sound depending on the direction from which the sound is coming. In a movie theater, there is an array of surround speakers so that the surround information is all around you. In a home theater, only two speakers located to the side of your head are used. The Timbre Matching feature filters the information going to the surround speakers so that they more closely match the tonal characteristics of the sound coming from the front speakers. This ensures seamless panning between the front and surround speakers.

Adaptive Decorrelation[™]

In a movie theater, a large number of surround speakers help create an enveloping surround sound experience, while in a home theater there are usually only two speakers. This can make the surround speakers sound like headphones that lack spaciousness and envelopment. The surround sounds will also collapse into the closest speaker as you move away from the middle seating position. Adaptive Decorrelation slightly changes one surround channel's time and phase relationship with respect to the other surround channel. This expands the listening position and creates—with only two speakers—the same spacious surround experience as in a movie theater.

THX Ultra2[™]

Before any home theater component can be THX Ultra2 certified, it must incorporate all the features above and also pass a rigorous series of quality and performance tests. Only then can a product feature the THX Ultra2 logo, which is your guarantee that the Home Theater products you purchase will give you superb performance for many years to come. THX Ultra2 requirements cover every aspect of the product including power amplifier performance, pre-amplifier performance and operation, as well as hundreds of other parameters in both the digital and analog domain.

In addition to improvements to the power amplifier with respect to previous THX Ultra standards, three surround modes have been added: the THX Ultra2 Cinema mode, THX Music Mode and THX Games Mode.

THX Ultra2 Cinema

THX Ultra2 Cinema mode plays 5.1 movies using all 8 speakers giving you the best possible movie watching experience. In this mode, new THX processing blends the side surround speakers and back surround speakers providing the optimal mix of ambient and directional surround sounds.

DTS-ES (Matrix and 6.1 Discrete) and Dolby Digital Surround EX encoded soundtracks will be automatically detected in Ultra2 Cinema mode if the appropriate flag has been encoded.

Some Dolby Digital Surround EX soundtracks are missing the digital flag that allows automatic switching. If you know that the movie that you are watching is encoded in Surround EX, you can manually select the THX Surround EX playback mode, otherwise THX Ultra2 Cinema mode will apply processing to provide optimum replay.

THX Music Mode

For the replay of 5.1 multi-channel music the THX Music Mode should be selected. In this mode new THX processing is applied to the surround channels of all 5.1 encoded music sources such as DTS and Dolby Digital to provide a wide stable rear soundstage.

THX Games Mode

For the replay of stereo and multi-channel game audio the THX Games Mode should be selected. In this mode THX ASA processing is applied to the surround channels of all 5.1 and 2.0 encoded game sources such as analog, PCM, DTS and Dolby Digital. This accurately places all game audio surround information, providing a full 360 degree playback environment. THX Games Mode is unique as it gives you a smooth transition of audio in all points of the surround field.

ASA (Advanced Speaker Array)

ASA is a proprietary THX technology which processes the sound fed to 2 side and 2 back surround speakers to provide the optimal surround sound experience. When you set up your home theater system using all eight speaker outputs (Left, Center, Right, Surround Right, Surround Back Right, Surround Back Left, Surround Left and Subwoofer) placing the two Surround Back speakers close together facing the front of the room as shown in the diagram will provide the largest sweet spot. If for practical reasons you have to place the Surround Back speakers apart, you will need to go THX Audio Set-up screen and choose the setting that most closely corresponds to the speaker spacing, which will re-optimize the surround sound-field.

ASA is used in three new modes; THX Ultra2 Cinema, THX Music Mode and THX Games Mode.

Boundary Gain Compensation

If your chosen listening room layout (for practical or aesthetic reasons) results in the most of the listeners being close to the rear wall, the resulting bass level can be sufficiently reinforced by the boundary that the overall sound quality becomes "boomy".THX Ultra2 receivers and controllers contain the BGC (Boundary Gain Compensation) feature to provide an improved bass balance. BGC can be selected by choosing "THX Ultra2 Subwoofer–Yes" from the "Boundary Gain Compensation" section of the THX Audio setup menu.

THX and Re-EQ, THXTimbre Matching, THX Adaptive Decorrelation, and THX Advanced Speaker Array are trademarks of THX Ltd. THX may be registered in some jurisdictions. All rights reserved.

THX[™] Surround EX[™]

In 1999, a new surround system was launched simultaneously with the release of the movie "Star Wars Episode I," "Dolby Digital Surround EX" is a new movie sound track that greatly enhances the sense of spatial expression and the positioning of the surround channel sound. The result is 360 degrees of movement and moving sound effects that seem to pass right over the listener's head. This system was developed jointly by THX and Dolby Laboratories, fusing THX's idea of improving spatial expression and achieving a uniform 360 degree sound positioning with Dolby Laboratories' matrix encoding technology. Emphasis was placed on compatibility with the existing system Dolby Digital 5.1 channel, and the new "surround back (SB) channel" was added to achieve improvements over the conventional 5.1 channel system in terms of the positioning of the sound at the rear, the acoustic image of sound moving from the two sides to the back as well as sound moving from the front to the center rear with the multi surround speaker systems used in movie theaters, thereby enabling various types of surround sound. The surround back channel signal is a matrix-encoded signal inserted into both the Dolby Digital SL (surround left) and SR (surround right) channels. Upon playback, the signals are decoded by a high precision digital matrix decoder within the Dolby Digital decoder into the SL. SR and SB channels and output as 6.1 channels of signals. With the AVR-5308Cl, the signals further undergo Home THX Cinema processing to achieve a THX Surround EX system. Even without the proper environment for playing the SB channel, Dolby Digital Surround EX signals are 100% compatible with existing 5.1 channel playback systems, so they can be played as such. In this case, the SB channel signal is produced as a monaural signal from both the SL and SR channels, so none of the signal components are missing. The effects specific to THX Surround EX (the sense of spatial expression and the positioning of the sound), however, are the same as with conventional 5.1 channel surround systems.

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Neural Surround

Neural Surround[™], a breakthrough in audio technology, will bring the excitement of surround music to more of America's listening audience. It provides the rich envelopment and discrete image detail of surround sound in a format 100 % compatible with stereo. With superior spectral resolution and channel separation, Neural Surround[™] draws the brain's attention to sonic details in musical instruments, vocals, and ambience that are typically masked by other playback systems. This allows the listener to fully experience the richness and subtleties in recorded performance as never before. As the chosen format for XM Satellite Radio's new XM HD surround programming. Neural Surround will help deliver more surround music to more listeners than any other broadcast format. XM Satellite Radio will be the first radio company to broadcast surround sound on the radio 24 hours a day and will offer three channels fullv dedicated to Neural Surround™ music. This alone will amount to more than 25,000 hours of Neural Surround™ music each vear.

This product is manufactured under license from Neural Audio Corporation.

D&M Holdings Inc. hereby grants the user a non-exclusive, nontransferable, limited license right exercisable to use the NA SURROUND Technology and other US and World Wide Patents Pending technology.

"Neural" and "Neural Audio" and "Neural Surround" are trademarks of Neural Audio Corporation. All Rights Reserved.

Audyssey

Audyssey MultEQ[®] XT

Audyssey MultEQ[®] XT is the first technology to properly measure sound information throughout a listening area, then combine this information to accurately represent the acoustical problems in the room. Based on these measurements, MultEQ XT calculates an equalization solution that corrects for both time and frequency response problems in every seat. Audyssey MultEQ XT not only corrects frequency response problem in a large listening area but also performs a fully automated surround system setup.

For a detailed description, see page 27.

Audyssey Dynamic EQ[™]

Audyssey Dynamic EQ solves the problem of deteriorating sound quality as volume is decreased by taking into account human perception and room acoustics. Dynamic EQ selects the best possible frequency response and surround levels moment-by-moment as volume is changed. The result is bass response, tonal balance and surround impression that remain constant despite changes in volume. This is the first technology to combine information from incoming source levels with actual output sound levels in the room, a pre-requisite for delivering a loudness correction solution. Audyssey Dynamic EQ works in tandem with Audyssey MultEQ to provide well-balanced sound for every listener at any volume level.

Manufactured under license from Audyssey Laboratories. U.S. and foreign patents pending. Audyssey MultEQ[®] XT is a registered trademark of Audyssey Laboratories. Dynamic EQ[™] is a trademark of Audyssey Laboratories.

For more information, visit www.audyssey.com.

HDCD[®] (High Definition Compatible Digital[®])

HDCD[®] is an encoding/decoding technology that greatly reduces the distortion that occurs upon digital recording while maintaining compatibility with the conventional CD format, thus expanding the dynamic range and achieving a high resolution.

Conventional CDs and HDCD compatible CDs are identified automatically to select the optimum digital processing.

HOCD[®], HDCD[®], High Definition Compatible Digital[®] and Microsoft[®] are either registered trademarks or trademarks of Microsoft Corporation, Inc. in the United States and/or other countries. HDCD system manufactured under license from Microsoft Corporation, Inc. This product is covered by one or more of the following: In the USA: 5,479,168, 5,638,074, 5,640,161, 5,808,574, 5,838,274, 5,854,600, 5,864,311, 5,872,531, and in Australia: 669114. Other patents pending.

DENON LINK

DENON LINK is a unique digital, balanced transfer type interface developed by DENON. It offers high speed, high quality transfer of digital audio data with low signal loss. It can be used together with DENON DVD players equipped with a special DENON LINK connector using a single cable to enable playback with high sound quality. It allows digital transfer of the 192 kHz/24 bit 2-channel digital signals of DVD-Audio discs, PCM multi-channel signals, etc. Full-spec digital transfer of the audio contents of Super Audio CD is possible by connecting a player equipped for DENON LINK 3rd Edition.

Advanced AL24 Processing Multi channel

Equipped with "Advanced AL24 Processing" time axis region information volume expansion

In addition to the existing "AL24 Processing Plus" bit expansion technology, DENON has also developed "Advanced AL24 Processing" that dramatically improves information volume in the time axis region using high-speed signal detection and processing technology. In addition to expanding original 16-bit digital data to 24 bits, "Advanced AL24 Processing" uses data interpolation along the time axis or up-converted sampling to achieve natural interpolation without losing the original data. A digital filter is used to further expand adaptability and perform optimum filtering calculations for ringing-free pulse response, pulsive music data and attack sounds.

This results in the reproduction of such spatial information as the delicate nuances in the music, the positions of the performers, and the breadth, height, and depth of the concert hall. "Advanced AL24 Processing" is conducted for all channels and modes other than DSD DIRECT.

HDMI (High-Definition Multimedia Interface)

HDMI is a digital interface standard for next generation TVs based on DVI (Digital Visual Interface) standards and optimized for use in consumer equipment.

Non-compressed digital video and multi-channel audio signals are transmitted with a single connection.

HDMI is also compatible with HDCP (High-bandwidth Digital Contents Protection), a technology for protecting copyrights that encrypts digital video signals in the same was as with DVI.

Deep Color

Eliminates on-screen color banding, for smooth tonal transitions and subtle gradations between colors.

Enables increased contrast ratio.

Can represent many times more shades of gray between black and white.

At 30-bit pixel depth, a four times improvement would be the minimum, and the typical improvement would be eight times or more.

xvYCC

Next-generation "xvYCC" color space supports 1.8 times as many colors as existing HDTV signals. Lets HDTVs display colors more accurately.

Enables displays with natural, vivid colors.

Lip Sync

Because consumer electronics devices are using increasingly complex digital signal processing to enhance the clarity and detail of the content, synchronization of video and audio in user devices has become a greater challenge and could potentially require complex enduser adjustments. HDMI 1.3 incorporates an automatic video/audio synching capability that allows devices to perform this synchronization automatically with total accuracy.

"HDMI", "HDMI logo" and "High-Definition Multimedia Interface" are trademarks or registered trademarks of HDMI Licensing LLC.

	1										
				-	nals and adju	,	e different m				
Surround Mode		(Channel outp		1		arameter (de				-
	Front L/R	Center	Surround L/R	Surround Back L/R	Subwoofer	D. COMP *1	DRC *2	LFE *3	AFDM *1	SB CH Out	Cinema EQ.
PURE DIRECT, DIRECT	0	×	×	×	0	\bigcirc (OFF)	🔿 (Auto)	(0 dB)	×	×	×
DSD DIRECT	0	×	×	×	×	×	×	×	×	×	×
DSD MULTI DIRECT	0	O	0	O	0	×	×	(0 dB)	×	0	×
MULTI CH DIRECT	0	O	0	0	0	×	×	(0 dB)	(ON)	0	×
STEREO	0	×	×	×	0	\bigcirc (OFF)	🔿 (Auto)	(0 dB)	×	×	×
EXT. IN	0	O	0	0	0	×	×	×	×	×	×
MULTI CH IN	0	O	0	0	0	×	×	(0 dB)	(ON)	0	×
WIDE SCREEN	0	O	0	0	0	\bigcirc (OFF)	🔿 (Auto)	(0 dB)	×	0	O (OFF)
HOMETHX CINEMA (2ch)	0	0	0	0	0	×	×	×	×	0	×
HOME THX CINEMA (5.1ch)	0	O	O	0	0	×	×	(0 dB)	(ON)	0	×
DOLBY PRO LOGIC IIx	0	O	0	0	0	O (OFF)	🔿 (Auto)	×	×	0	O (NOTE1)
DOLBY PRO LOGIC II	0	O	0	×	0	O (OFF)	🔿 (Auto)	×	×	0	O (NOTE2)
DTS NEO:6	0	O	0	0	0	(OFF)	🔿 (Auto)	×	×	0	O (NOTE1)
DOLBY DIGITAL	0	O	0	O	0	O (OFF)	🔿 (Auto)	(0 dB)	(ON)	0	O (OFF)
DTS SURROUND	0	0	0	0	0	O (OFF)	🔿 (Auto)	(0 dB)	(ON)	0	O (OFF)
neural	0	O	O	0	0	×	×	×	×	0	×
7CH STEREO	0	O	0	0	0	O (OFF)	🔿 (Auto)	(0 dB)	×	0	×
SUPER STADIUM	0	O	0	0	0	\bigcirc (OFF)	🔿 (Auto)	(0 dB)	×	0	×
ROCK ARENA	0	0	0	0	0	(OFF)	🔿 (Auto)	(0 dB)	×	0	×
JAZZ CLUB	0	O	0	O	0	O (OFF)	🔿 (Auto)	(0 dB)	×	0	×
CLASSIC CONCERT	0	O	0	0	0	(OFF)	🔿 (Auto)	(0 dB)	×	0	×
MONO MOVIE	0	O	O	0	0	O (OFF)	🔿 (Auto)	(0 dB)	×	0	×
VIDEO GAME	0	O	0	0	0	O (OFF)	🔿 (Auto)	(0 dB)	×	0	×
MATRIX	0	O	0	0	0	\bigcirc (OFF)	🔿 (Auto)	(0 dB)	×	0	×
DOLBY HEADPHONE	0	×	×	×	×	×	×	×	×	×	×

| 🔾 : Signal / Adjustable

Surround Modes and Parameters

× : No signal / Not adjustable

© : Turned on or off by speaker configuration setting

NOTE1 : This parameter is available when the GUI menu "Parameter" – "Audio" – "Surround Parameters" – "Mode" is set to "Cinema" (1) page 50).

NOTE2 : This parameter is available when the GUI menu "Parameter" – "Audio" – "Surround Parameters" – "Mode" is set to "Cinema" or "Pro Logic" (1277 page 50).

NOTE:

*1: When playing Dolby Digital and DTS signals.

*2 : When playing Dolby True HD signal.

*3 : When playing Dolby Digital, DTS, DVD-Audio and Super Audio CD.

Getting Started

Connections

								d adjustabilit)					
			1	1	1	1	Parameter (c	efault values	are shown in		5)	1	1	1		1
Surround Mode	Mode	Decoder	Room Size	Effect Level	Delay Time	Subwoofer	PRO LOGIO	C II/IIx MUSIC	C mode only	NEO:6 MUSIC mode only	EXT. IN only	Tone	Night Mode	Room EQ	Dynamic FO*	RESTORE
							Panorama	Dimension	Center Width	Center Image	Subwoofer Att.				EQT	
PURE DIRECT, DIRECT	×	×	×	×	×	0	×	×	×	×	×	×	O (OFF)	O (NOTE5)	O (NOTE5)	0
DSD DIRECT	×	×	×	×	×	0	×	×	×	×	×	×	×	×	×	×
DSD MULTI DIRECT	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
MULTI CH DIRECT	×	×	×	×	×	×	×	×	×	×	×	×	O (OFF)	O (NOTE5)	O (NOTE5)	×
STEREO	×	×	×	×	×	×	×	×	×	×	×	(0 dB)	O (OFF)	O (OFF)	O (OFF)	0
EXT. IN	×	×	×	×	×	×	×	×	×	×	0	×	×	×	×	×
MULTI CH IN	×	×	×	×	×	×	×	×	×	×	×	○ (0 dB)	O (OFF)	O (OFF)	O (OFF)	×
WIDE SCREEN	×	×	×	○ (ON, 10)	×	×	×	×	×	×	×	○ (0 dB)	O (OFF)	O (OFF)	O (OFF)	0
HOME THX CINEMA (2ch)	O (PLIIx C)	0	×	×	×	×	×	×	×	×	×	×	O (OFF)	O (OFF)	(OFF)	0
HOME THX CINEMA (5.1ch)	×	×	×	×	×	×	×	×	×	×	×	×	O (OFF)	O (OFF)	(OFF)	×
DOLBY PRO LOGIC IIx	O (Cinema)	×	×	×	×	×	O (OFF)	(3)	(3)	×	×	(0 dB)	O (OFF)	O (OFF)	O (OFF)	0
DOLBY PRO LOGIC II	O (Cinema)	×	×	×	×	×	O (OFF)	(3)	(3)	×	×	(0 dB)	O (OFF)	O (OFF)	O (OFF)	0
DTS NEO:6	O (Cinema)	×	×	×	×	×	×	×	×	(0.3)	×	(0 dB)	(0FF)	O (OFF)	O (OFF)	0
DOLBY DIGITAL	×	×	×	×	×	×	×	×	×	×	×	(0 dB)	O (OFF)	O (OFF)	O (OFF)	×
DTS SURROUND	×	×	×	×	×	×	×	×	×	×	×	(0 dB)	(OFF)	O (OFF)	O (OFF)	×
neural	×	×	×	×	×	×	×	×	×	×	×	(0 dB)	O (OFF)	O (OFF)	O (OFF)	0
7CH STEREO	×	×	×	×	×	×	×	×	×	×	×	(0 dB)	O (OFF)	O (OFF)	O (OFF)	0
SUPER STADIUM	×	×	O (Medium)	(10)	×	×	×	×	×	×	×	O (NOTE3)	O (OFF)	O (OFF)	O (OFF)	0
ROCK ARENA	×	×	O (Medium)	(10)	×	×	×	×	×	×	×	○ (NOTE4)	O (OFF)	O (OFF)	O (OFF)	0
JAZZ CLUB	×	×	O (Medium)	(10)	×	×	×	×	×	×	×	(0 dB)	(OFF)	O (OFF)	O (OFF)	0
CLASSIC CONCERT	×	×	O (Medium)	(10)	×	×	×	×	×	×	×	○ (0 dB)	O (OFF)	O (OFF)	O (OFF)	0
MONO MOVIE	×	×	O (Medium)	(10)	×	×	×	×	×	×	×	(0 dB)	O (OFF)	O (OFF)	O (OFF)	0
VIDEO GAME	×	×	(Medium)	(10)	×	×	×	×	×	×	×	(0 dB)	(OFF)	O (OFF)	O (OFF)	0
MATRIX	×	×	×	×	(30 ms)	×	×	×	×	×	×	(0 dB)	O (OFF)	O (OFF)	O (OFF)	0
DOLBY HEADPHONE	×	0	×	×	×	×	×	×	×	×	×	○ (0 dB)	O (OFF)	O (OFF)	O (OFF)	0

× : No signal / Not adjustable NOTE3 : BASS +6 dB, TREBLE 0 dB

NOTE4 : BASS +6 dB, TREBLE +4 dB

NOTE5 : Can be used according to the "Direct Mode" setting.

* : Can be set when GUI menu "Parameter" – "Audio" – "Room EQ" (😰 page 53) is set to "Audyssey", "Audyssey Flat", "Audyssey Byp.L/R".

Differences in Surround Mode Names Depending on the Input Signals

Button									Input signa	ls							
				WMA		DTS				DOLB	Y DIGITAL	-		DVD-A	UDIO	Super A	udio CD
Surround mode	Note	ANALOG	LINEAR PCM / WAV	(Windows Media Audio) / MP3 / MPEG-4 AAC / FLAC	DTS ES DSCRT (With Flag)	DTS ES MTRX (With Flag)	DTS (5.1ch)	DTS 96/24	DOLBY DIGITAL EX (With Flag)	DOLBY DIGITAL EX (With no Flag)	DOLBY DIGITAL (5.1/5/4ch)	DOLBY DIGITAL (4/3ch)	DOLBY DIGITAL (2ch)	DVD- Audio (multi ch)	DVD- Audio (2ch)	DSD (multi ch)	DSD (2ch)
OME THX CINEMA																	
ES DSCRT6.1 + THX	*1	×	×	×	O	×	×	×	×	×	×	×	×	×	×	×	×
ES MTRX6.1 + THX	* 1	×	×	×	×	0	0	0	×	×	×	×	×	×	×	×	×
THX SURROUND EX	*1	×	×	×	×	×	×	×	O	0	0	0	×	0	×	0	×
THX Ultra2 Cinema	*2	×	×	×	0	0	0	0	0	0	0	0	×	0	×	0	×
THX Music Mode	*2	×	×	×	0	0	0	0	0	0	0	0	×	0	×	0	×
THX Games Mode	*2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
THX Cinema		×	×	×	0	0	0	0	0	0	0	0	×	0	×	0	×
PLIIx C + THX	*3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	C
PLII C + THX		0	0	0	×	×	×	×	×	×	×	×	0	×	0	×	C
DOLBY PL + THX		0	0	0	×	×	×	×	×	×	×	×	0	×	0	×	0
NEO:6 + THX		0	0	0	×	×	×	×	×	×	×	×	0	×	0	×	0
MULTI CH 7.1 + THX		×	×	×	×	×	×	×	×	×	×	×	×	0 (7.1)	×	×	×
MULTI CH 5.1 + THX		×	×	×	×	×	×	×	×	×	×	×	×	0	×	0	×
ANDARD																	
DTS SURROUND																	
DTS ES DSCRT6.1	*1	×	×	×		×	×	×	×	×	×	×	×	×	×	×	×
DTS ES MTRX6.1	*1	×	×	×	×		×	×	×	×	×	×	×	×	×	×	×
DTS SURROUND		×	×	×	0	0		×	×	×	×	×	×	×	×	×	×
DTS 96/24		×	×	×	×	×	×		×	×	×	×	×	×	×	×	×
DTS + PLIIx CINEMA	*2	×	×	×	0	0	0	0	×	×	×	×	×	×	×	×	×
DTS + PLIIx MUSIC	*1	×	×	×	0	0	0	0	×	×	×	×	×	×	×	×	×
DTS + NEO:6	* 1	×	×	×	×	0	0	0	×	×	×	×	×	×	×	×	×
DTS NEO:6 CINEMA		0	0	0	×	×	×	×	×	×	×	×	0	×	0	×	C
DTS NEO:6 MUSIC		0	0	0	×	×	×	×	×	×	×	×	0	×	0	×	C

NOTE:

*1: This mode is not available when the surround back speaker setup is set to "None" (1) page 30).

*2: This mode is not available when the surround back speaker setup is set to "1spkr" or "None" (1) rage 30).

• : Mode selectable in initial status © : Mode fixed when "AFDM" is "ON"

O : Selectable mode

*3: For input signals other than 2 channel signals, this mode cannot be selected when surround back speaker is set to ×: Non-selectable mode "1spkr" or "None".

Getting Started Connections Setup Playback Remote Control Multi-Zone Information

Troubleshooting

Button									Input signa	ils							
				WMA		DTS				DOLB	Y DIGITAL			DVD-A	UDIO	Super A	udio C
Surround mode	Note	ANALOG	LINEAR PCM / WAV	(Windows Media Audio) / MP3 / MPEG-4 AAC / FLAC	DTS ES DSCRT (With Flag)	DTS ES MTRX (With Flag)	DTS (5.1ch)	DTS 96/24	DOLBY DIGITAL EX (With Flag)	DOLBY DIGITAL EX (With no Flag)	DOLBY DIGITAL (5.1/5/4ch)	DOLBY DIGITAL (4/3ch)	DOLBY DIGITAL (2ch)	DVD- Audio (multi ch)	DVD- Audio (2ch)	DSD (multi ch)	DSI (2ch
STANDARD																	
DOLBY SURROUND																	
DOLBY DIGITAL EX	*1	×	×	×	×	×	×	×	0	0	0	0	×	×	×	×	×
DOLBY DIGITAL		×	×	×	×	×	×	×	0				×	×	×	×	×
DOLBY DIGITAL + PLIIx CINEMA	*2	×	×	×	×	×	×	×		0	0	0	×	×	×	×	×
DOLBY DIGITAL + PLIIX MUSIC	*1	×	×	×	×	×	×	×	0	0	0	0	×	×	\times	×	×
DOLBY PRO LOGIC IIx CINEMA		0	0	0	×	×	×	×	×	×	×	×		×	0	×	C
DOLBY PRO LOGIC IIx MUSIC		0	0	0	×	×	×	×	×	×	×	×	0	×	\bigcirc	×	C
DOLBY PRO LOGIC IIx GAME		0	0	0	×	×	×	×	×	×	×	×	0	×	\bigcirc	×	C
DOLBY PRO LOGIC II CINEMA		0	0	0	×	×	×	×	×	×	×	×	0	×	\bigcirc	×	C
DOLBY PRO LOGIC II MUSIC		0	0	0	×	×	×	×	×	×	×	×	0	×	\bigcirc	×	C
DOLBY PRO LOGIC II GAME		0	0	0	×	×	×	×	×	×	×	×	0	×	0	×	C
DOLBY PRO LOGIC		0	0	0	×	×	×	×	×	×	×	×	0	×	\bigcirc	×	C
DOLBY HEADPHONE	*4	0	0	0	0	0	0	0	0	0	0	0	0	0	\bigcirc	0	C
neural		0	0	0	×	×	×	×	×	×	×	×	×	×	*	×	>
MULTI CH IN																	
MULTI CH IN		×	×	×	×	×	×	×	×	×	×	×	×		\times		×
MULTI IN + PLIIx CINEMA	*2	×	×	×	×	×	×	×	×	×	×	×	×	0	×	0	>
MULTI IN + PLIIx MUSIC	*1	×	×	×	×	×	×	×	×	×	×	×	×	0	\times	0	>
MULTI CH IN 7.1		×	×	×	×	×	×	×	×	×	×	×	×	• (7.1)	\times	×	×
DIRECT		0	0	0	0	0	0	0	0	0	0	0	0	×	\bigcirc	×	C
DSD DIRECT		×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	C
DSD MULTI DIRECT		×	×	×	×	×	×	×	×	×	×	×	×	×	×	0	>
MULTI CH DIRECT		×	×	×	×	×	×	×	×	×	×	×	×	0	×	0	>
M DIRECT + PLIIx CINEMA	*2	×	×	×	×	×	×	×	×	×	×	×	×	0	×	0	>
M DIRECT + PLIIx MUSIC	*1	×	×	×	×	×	×	×	×	×	×	×	×	0	×	0	>
M DIRECT 7.1		×	×	×	×	×	×	×	×	×	×	×	×	0	×	×	>

NOTE:

*1: This mode is not available when the surround back speaker setup is set to "None" (1) page 30).

*2: This mode is not available when the surround back speaker setup is set to "1spkr" or "None" (1) page 30).

*4: This mode is not available when headphones are connected to the PHONE jack.

*: HDMI input only.

• : Mode selectable in initial status

 $\ensuremath{\mathbb{O}}$: Mode fixed when "AFDM" is "ON"

○ : Selectable mode

 \times : Non-selectable mode

Getting Started Connections Setup Playback Remote Control Multi-Zone Information

Troubleshooting

Button									Input signal	als							
			,	WMA		DTS				DOLB	BY DIGITAL			DVD-/	AUDIO	Super /	Audio CD
Surround mode	Note	ANALOG	LINEAR PCM / WAV	(Windows Media Audio) / MP3 / MPEG-4 AAC / FLAC	DSCRT (With Flag)	DTS ES MTRX (With Flag)	DTS (5.1ch)	DTS 96/24	DOLBY DIGITAL EX (With Flag)	DOLBY DIGITAL EX (With no Flag)	DOLBY DIGITAL (5.1/5/4ch)	-	L DIGITAL		DVD- Audio) (2ch)		DSD n) (2ch)
PURE DIRECT		,	,														
PURE DIRECT		0	0	0	0	0	0	0	0	0	0	0	0	×	0	×	0
DSD PURE DIRECT		×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	0
DSD MULTI PURE		×	×	×	×	×	×	×	×	×	×	×	×	×	×	0	×
MULTI CH PURE DIRECT		×	×	×	×	×	×	×	×	×	×	×	×	0	×	0	×
M PURE D + PLIIx CINEMA	*2	×	×	×	×	×	×	×	×	×	×	×	×	0	×	0	×
M PURE D + PLIIx MUSIC	*1	×	×	×	×	×	×	×	×	×	×	×	×	0	×	0	×
M CH PURE DIRECT 7.1		×	×	×	×	×	×	×	×	×	×	×	×	0	×	×	×
DSP SIMULATION		,	/														
7CH STEREO	*5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WIDE SCREEN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SUPER STADIUM	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ROCK ARENA		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
JAZZ CLUB		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CLASSIC CONCERT		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MONO MOVIE	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VIDEO GAME		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MATRIX		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
STEREO		,	,														
STEREO				•	0	0	0	0	0	0	0	0	0	0		0	

NOTE :

*1: This mode is not available when the surround back speaker setup is set to "None" (1) page 30).

*2: This mode is not available when the surround back speaker setup is set to "1spkr" or "None" (1) page 30).

*5: If the surround back speaker setup is set to "None" and when using headphones, then "5CH STEREO" is displayed.

"9CH STEREO" is displayed when surround (A+B) and the surround back speaker are used.

• : Mode selectable in initial status

○ : Selectable mode

 \times : Non-selectable mode

Getting Started Connections Setup Playback Remote Control Multi-Zone Information Troubleshooting

About Networks

Windows Media Player Ver.11

This is a media player distributed free of charge by Microsoft Corporation.

It can be used to play playlists created with Windows Media Player Ver. 11 as well as files in such formats as WMA, DRM WMA, MP3 and WAV.

vTuner

This is a free online contents server for Internet radio. Note that usage fees are included in upgrade costs.

For inquiries about this service, visit the vTuner site below. vTuner website: <u>http://www.radiodenon.com</u>

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DLNA

- DLNA and DLNA CERTIFIED are trademarks and/or service marks of Digital Living Network Alliance.
- Some contents may not be compatible with other DLNA CERTIFIED™ products.

Windows Media DRM

A copyright-protected technology developed by Microsoft.

- Windows Vista and the Windows logo are trademarks of the Microsoft group of companies.
- The PlaysForSure logo, Windows Media and the Windows logo are trademarks or registered trademarks of Microsoft Corporation in the United States and/or other countries.
- Content providers are using the digital rights management technology for Windows Media contained in this device (WM-DRM) to protect the integrity of their content (Secure Content) so that their intellectual property, including copyright, in such content is not misappropriated. This device uses WM-DRM software to play Secure Content (WM-DRM Software). If the security of the WM-DRM Software in this device has been compromised, owners of Secure Content (Secure Content Owners) may request that Microsoft revoke the WM-DRM Software's right to acquire new licenses to copy, display and/or play Secure Content. Revocation does not alter the WM-DRM Software's ability to play unprotected content. A list of revoked WM-DRM Software is sent to your device whenever you download a license for Secure Content from the Internet or from a PC. Microsoft may, in conjunction with such license, also download revocation list onto your device on behalf of Secure Content Owners.

About Wireless LAN

Wi-Fi[®]

Wi-Fi Certification assures tested and proven interoperability by the Wi-Fi Alliance, a group certifying interoperability among wireless LAN devices.

IEEE 802.11b

This is one wireless LAN standard set by the 802 working group that establishes LAN technology standards at the IEEE (Institute of Electrical and Electronics Engineers) of the United States. It uses the 2.4 GHz band usable freely without a radio frequency license (ISM band), enabling communications at a maximum speed of 11 Mbps.

The value indicated above is the maximum theoretical value for the wireless LAN standard, and does not indicate the actual data transfer rate.

IEEE 802.11g

This is another wireless LAN standard set by the 802 working group that establishes LAN technology standards at the IEEE (Institute of Electrical and Electronics Engineers) of the United States, and is compatible with IEEE 802.11b. It also uses the 2.4 GHz band, but enables communications at a maximum speed of 54 Mbps.

(ⁿ

The value indicated above is the maximum theoretical value for the wireless LAN standard, and does not indicate the actual data transfer rate.

Infrastructure Communications

"Infrastructure Communications" refers to networks using wireless LAN access points.

This function can be used to connect to the Internet or a wired LAN via a wireless LAN access point. Wireless LAN access points include wireless broadband routers.

Ad-hoc Communications

Signal transfer through wireless interconnection of computers is referred to as "ad hoc communications." With such ad hoc communications there is no connection to the Internet. Ad hoc communications are suited for establishing simple temporary networks.

Network Names (SSID: Security Set Identifier)

When forming wireless LAN networks, groups are formed to prevent interference, data theft, etc. This grouping is done by "SSID" or "Security Set Identifiers". For further security, a WEP key is set and signal transfer is not possible unless the SSID and WEP key match.

WEP Key (Network Key)

This is key information used for encrypting data when conducting data transfer. On the AVR-5308CI, the same WEP key is used for data encryption and decryption, so the same WEP key must be set on both devices in order for communications to be established between them.

WPA (Wi-Fi Protected Access)

This is a security standard established by the Wi-Fi Alliance. In addition to the conventional SSID (network name) and WEP key (network key), it also uses a user identification function and encrypting protocol for stronger security.

WPA2 (Wi-Fi Protected Access 2)

This is a new version of the WPA established by the Wi-Fi Alliance, compatible with more secure AES encryption.

WPA-PSK/WPA2-PSK (Pre-shared Key)

This is a simple authentication system for mutual authentication when a preset character string matches on the wireless LAN access point and client.

Passphrase

This refers to the code key used for WPA-PSK/WPA2-PSK authentication, a WPA authentication method.

TKIP (Temporal Key Integrity Protocol)

This is a network key used for WPA. The encryption algorithm is RC4, the same as for WEP, but the security level is increased by changing the network key used for encryption for each packet.

AES (Advanced Encryption Standard)

This is a next generation standard encryption method replacing the current DES and 3DES, and because of its high security it is expected to be applied widely to wireless LANs in the future. It uses the "Rijndael" algorithm developed by two Belgian cryptographers to divide the data into blocks of fixed lengths and encrypt each block. It supports data lengths of 128, 192 and 256 bits and key lengths of 128, 192 and 256 bits as well, offering extremely high encryption security.

Relationship Between Video Signals and Monitor Output

□ MAIN ZONE

Video	Convert		Input sig				Monitor				nitor output (when		
VIGEO	convert	HDMI	COMPONENT	S-VIDEO	VIDEO	HDMI	COMPONENT	S-VIDEO	VIDEO	HDMI	COMPONENT	S-VIDEO	VIDEO
		×	X	×	×	*				* *4	*4	*4	*4
		×	X	×	0	X VIDEO*1	VIDEO * 1	VIDEO*1 *5	VIDEO*1 *5	* VIDEO*3	VIDEO*3	VIDEO*3	VIDEO*3
		×	X	0	×	* S-VIDEO*1	S-VIDEO*1	S-VIDEO*1	S-VIDEO*1	* S-VIDEO*3	S-VIDEO*3	S-VIDEO*3	S-VIDEO*3
		×	X	0	0	<u> * S-VIDEO*1</u>	S-VIDEO*1	S-VIDEO*1	S-VIDEO*1	* S-VIDEO*3	S-VIDEO*3	S-VIDEO*3	S-VIDEO*3
		×	O (1080p)	×	×	×	COMPONENT	X		* *4	*4	*4	*4
		×	(480p ~ 720p)	×	×	* COMPONENT*1	COMPONENT*1	X	X	* COMPONENT*3	COMPONENT*3	×	×
		×	(480i/576i)	×	×	* COMPONENT*1	COMPONENT*1	COMPONENT*1	COMPONENT*1	* COMPONENT*3	COMPONENT*3	COMPONENT*3	
		×	O (1080p)	×		* VIDEO*1	COMPONENT	VIDEO *1 *5	VIDEO *1 *5	* VIDEO*3	VIDEO*3	VIDEO*3	VIDEO*3
		×	(480p ~ 720p)	×	<u> </u>	* COMPONENT*1	COMPONENT*1	×	VIDEO	* COMPONENT*3	COMPONENT*3	×	VIDEO
		×	(480i/576i)	×	0	* COMPONENT*1	COMPONENT*1	COMPONENT*1		* COMPONENT*3		COMPONENT*3	
		×	O (1080p)	0	×	* S-VIDEO*1	COMPONENT	S-VIDEO*1	S-VIDEO*1	* S-VIDEO*3	S-VIDEO*3	S-VIDEO*3	S-VIDEO*3
		×	(480p ~ 720p)	0	×	* COMPONENT*1	COMPONENT*1	S-VIDEO	S-VIDEO	* COMPONENT*3	COMPONENT*3	S-VIDEO	S-VIDEO
		×	(480i/576i)	0	×	* COMPONENT*1	COMPONENT*1	COMPONENT*1	COMPONENT*1	* COMPONENT*3			
		×	O (1080p)	0	<u> </u>	* S-VIDEO*1	COMPONENT	S-VIDEO*1	S-VIDEO*1	* S-VIDEO*3	S-VIDEO*3	S-VIDEO*3	S-VIDEO*3
		×	(480p ~ 720p)	0	<u> </u>	* COMPONENT*1	COMPONENT*1	S-VIDEO	S-VIDEO	* COMPONENT*3		S-VIDEO	S-VIDEO
		×	(480i/576i)	0	0	* COMPONENT*1	COMPONENT*1	COMPONENT*1		* COMPONENT*3	COMPONENT*3		
		0	×	×	×	HDMI*2	×	×	×	HDMI*3	X	×	×
		0	×	×	0	HDMI*2	VIDEO*1	VIDEO *1 *5	VIDEO *1 *5	HDMI*3	VIDEO	VIDEO	VIDEO
		0	×	0	×	HDMI*2	S-VIDEO*1	S-VIDEO*1	S-VIDEO*1	HDMI*3	S-VIDEO	S-VIDEO	S-VIDEO
		0	×	0	0	HDMI*2	S-VIDEO*1	S-VIDEO*1	S-VIDEO*1	HDMI*3	S-VIDEO	S-VIDEO	S-VIDEO
		0	(1080p)	×	×	HDMI*2	COMPONENT	×	X	HDMI*3	COMPONENT	×	×
		0	(480p ~ 720p)	×	×	HDMI*2	COMPONENT*1	×	×	HDMI*3	COMPONENT	X	×
			<u>(480i/576i)</u>	×	×	HDMI*2	COMPONENT*1	COMPONENT*1	COMPONENT*1	HDMI*3	COMPONENT	COMPONENT	COMPONENT
ON	With HDMI	<u> </u>	O (1080p)	×	<u> </u>	HDMI*2	COMPONENT	VIDEO *1 *5	VIDEO *1 *5	HDMI*3	COMPONENT	VIDEO	VIDEO
	monitor	<u> </u>	(480p ~ 720p)	×	<u> </u>	HDMI*2	COMPONENT*1	×	VIDEO	HDMI*3	COMPONENT	×	VIDEO
		<u> </u>	(480i/576i)	×	0	HDMI*2	COMPONENT*1	COMPONENT*1	COMPONENT*1	HDMI*3	COMPONENT	COMPONENT	COMPONENT
		<u> </u>	O (1080p)	0	×	HDMI*2	COMPONENT	S-VIDEO*1	S-VIDEO*1	HDMI*3	COMPONENT	S-VIDEO	S-VIDEO
		<u> </u>	(480p ~ 720p)	0	×	HDMI*2	COMPONENT*1	S-VIDEO	S-VIDEO	HDMI*3	COMPONENT	S-VIDEO	S-VIDEO
		<u> </u>	(480i/576i)		×	HDMI*2	COMPONENT*1	COMPONENT*1	COMPONENT*1	HDMI*3	COMPONENT	COMPONENT	COMPONENT
		<u> </u>	(1080p)		<u> </u>	HDMI*2	COMPONENT	S-VIDEO*1	S-VIDEO*1	HDMI*3	COMPONENT	S-VIDEO	S-VIDEO
		<u> </u>	(480p ~ 720p)	<u> </u>	<u> </u>	HDMI*2	COMPONENT*1	S-VIDEO	S-VIDEO	HDMI*3	COMPONENT	S-VIDEO	S-VIDEO
-		<u> </u>	(480i/576i)	0	0	HDMI*2	COMPONENT*1	COMPONENT*1	COMPONENT*1	HDMI*3	COMPONENT	COMPONENT	COMPONENT
			X	×	X	×	×	X	X	X	*4	*4	*4
			×	×	<u> </u>	×	VIDEO*1	VIDEO*1 *5	VIDEO*1 *5	X	VIDEO*3	VIDEO*3	VIDEO*3
			×	0	X	×	S-VIDEO*1	S-VIDEO*1	S-VIDEO*1	X	S-VIDEO*3	S-VIDEO*3	S-VIDEO*3
			X	0	0	X	S-VIDEO*1	S-VIDEO*1	S-VIDEO*1	X	S-VIDEO*3 *4	S-VIDEO*3 *4	S-VIDEO*3 *4
		0	(1080p)	×	×	×	COMPONENT	×	×	×			
	Without HDMI	<u> </u>	(480p ~ 720p)	×	×	X	COMPONENT*1	X	X	X	COMPONENT*3	X	X
	monitor	<u> </u>	(480i/576i)	×	×	X	COMPONENT*1	COMPONENT*1	COMPONENT*1	X	COMPONENT*3	COMPONENT*3	
	or	<u> </u>	O (1080p)	×	<u> </u>	X	COMPONENT	VIDEO*1 *5	VIDEO *1 *5	X	VIDEO*3	VIDEO*3	VIDEO*3
	with HDMI		(480p ~ 720p)	×		×	COMPONENT*1	X	VIDEO	X	COMPONENT*3		VIDEO
	monitor off		(480i/576i)	×	<u> </u>	×	COMPONENT*1	COMPONENT*1	COMPONENT*1	X		COMPONENT*3	
			(1080p)	0	X	×	COMPONENT*1	S-VIDEO*1	S-VIDEO*1	X	S-VIDEO*3	S-VIDEO*3	S-VIDEO*3
			(480p ~ 720p)	0	X	×	COMPONENT*1	S-VIDEO	S-VIDEO	X	COMPONENT*3	S-VIDEO	S-VIDEO
			(480i/576i)		X	×	COMPONENT*1	COMPONENT*1	COMPONENT*1	X		COMPONENT*3	
			(1080p)			×	COMPONENT * 1	S-VIDEO*1	S-VIDEO*1	X	S-VIDEO*3	S-VIDEO*3	S-VIDEO*3
			(480p ~ 720p)			×	COMPONENT*1	S-VIDEO	S-VIDEO	X	COMPONENT*3	S-VIDEO	S-VIDEO
		0	(480i/576i)		0	×	COMPONENT*1	COMPONENT*1	COMPONENT*1	X	COMPONENT*3	COMPONENT*3	COMPONENT*

○: Signal present

× : No signal

480p ~ 720p : 480p / 576p / 1080i / 720p

X : No output

*1 : The "Picture Adjust" setting can be made ("Contrast", "Brightness", "Chroma Level", "Hue").

*2 : The "Picture Adjust" setting can be made ("DNR", "Enhancer", 💻 : Output according to "Resolution" setting (i/p Scaler : When "H to H" is "Sharpness").

*3 : Superimposed over video signal *4 : Only displayed when the **MENU** button is pressed

*5 : If the input signal is in SECAM format, it is converted to PAL for output

* : Output according to "Resolution" setting (i/p Scaler : When "A to H" is set) (Cr page 45).

: Wallpaper or set background color displayed

set) (B page 45).

: GUI menu not displayed

6

• The MAIN ZONE video conversion function is compatible with the following formats: NTSC, PAL, SECAM, NTSC4,43, PAL -N, PAL -M and PAL -60.

• When SECAM signals of video input are up-converted, the signals are output in PAL format from the S-Video connector.

• If the input signal is a component 1080p signal, up-converting to HDMI is not possible.

• The GUI menu display cannot be superimposed when xvYCC signals and component 1080p signal, computer's resolution (e.g. VGA) are input.

Video Convert		Input s	signal			Monitor outpu	it (Normally)		M	lonitor output (when	GUI menu displaye	ed)
video Convert	HDMI	COMPONENT	S-VIDEO	VIDEO	HDMI	COMPONENT	S-VIDEO	VIDEO	HDMI	COMPONENT	S-VIDEO	VIDEO
	×	×	×	×	×	×	×	×	0	0	0	0
	×	×	×	0	×	×	×	(VIDEO)	0	0	0	0
	×	×	0	×	×	×	(S-VIDEO)	×	0	0	0	0
	×	×	0	0	×	×	(S-VIDEO)	(VIDEO)	0	0	0	0
	×	0	×	×	×	O (COMPONENT)	×	×	0	0	0	0
	×	0	×	0	×	○ (COMPONENT)	×	(VIDEO)	0	0	0	0
	×	0	0	×	×	O (COMPONENT)	(S-VIDEO)	×	0	0	0	0
OFF	×	0	0	0	×	O (COMPONENT)	(S-VIDEO)	(VIDEO)	0	0	0	0
OFF	0	×	×	×	(HDMI)	×	×	×	○ (HDMI)*	×	×	×
	0	×	×	0	(HDMI)	×	×	(VIDEO)	○ (HDMI)*	×	×	×
	0	×	0	×	(HDMI)	×	(S-VIDEO)	×	○ (HDMI)*	×	×	×
	0	×	0	0	(HDMI)	×	(S-VIDEO)	(VIDEO)	○ (HDMI)*	×	×	×
	0	0	×	×	(HDMI)	○ (COMPONENT)	×	×	○ (HDMI)*	×	×	×
	0	0	×	0	(HDMI)	O (COMPONENT)	×	(VIDEO)	○ (HDMI)*	×	×	×
	0	0	0	×	(HDMI)	O (COMPONENT)	(S-VIDEO)	×	○ (HDMI)*	×	×	×
	0	0	0	0	(HDMI)	○ (COMPONENT)	(S-VIDEO)	(VIDEO)	○ (HDMI)*	×	×	×

○ : Signal present× : No signal

○: Output present

× : No output

* : Superimposed over video signal

To display the GUI menu on an HDMI monitor, output with a resolution of 480p/576p.

ZONE2 / ZONE3

	Input signal			Monitor output	
COMPONENT	S-VIDEO	VIDEO	COMPONENT (ZONE2 only)	S-VIDEO (ZONE2 only)	VIDEO
×	×	×	×	×	×
×	×	0	×	×	O (VIDEO)
×	0	×	×	(S-VIDEO)	O (S-VIDEO)
×	0	0	×	(S-VIDEO)	(S-VIDEO)
0	×	×	O (COMPONENT)	X	×
0	×	0	O (COMPONENT)	X	O (VIDEO)
0	0	×	O (COMPONENT)	(S-VIDEO)	O (S-VIDEO)
0	0	0	O (COMPONENT)	○ (S-VIDEO)	○ (S-VIDEO)

○: Signal present
 ×: No signal

| ○ : Output present | × : No output

: On-screen display not displayed

Relationship Between Amp Assign Setting and Speaker Output

STEREO or DIRECT (2ch) Mode

	Status		Speaker	terminal	
Setting	Surround mode	SURROUND A	SURROUND BACK	SURROUND B/ ASSIGN	ASSIGN-2
2CH Bi-Wiring	STEREO/DIRECT	-	-	FL/FR	FL/FR
ZUN DI-WITTIN	Other	SLA/SRA	SBL/SBR	-	-
2CH Bi-Amp	STEREO/DIRECT	_	_	FL/FR	FL/FR
ZCH DI-Allih	Other	SLA/SRA	SBL/SBR	_	-

Multi-Zone Power On/Off

	Sta	itus		Speaker	terminal	
Setting	ZONE2	ZONE3	SURROUND A	SURROUND BACK	SURROUND B/ Assign	ASSIGN-2
	ON	ON	SLA/SRA	-	SLB/SRB	Z2 L/R
ZONE2		OFF	SLA/SRA	_	SLB/SRB	Z2 L/R
ZUIVLZ	OFF	ON	SLA/SRA	SBL/SBR	SLB/SRB	_
	UFF	OFF	SLA/SRA	SBL/SBR	SLB/SRB	-
	ON	ON	SLA/SRA	-	SLB/SRB	Z3 L/R
ZONE3	UN	OFF	SLA/SRA	SBL/SBR	SLB/SRB	-
ZUNES	OFF	ON	SLA/SRA	-	SLB/SRB	Z3 L/R
	UII	OFF	SLA/SRA	SBL/SBR	SLB/SRB	-
	ON	ON	SLA/SRA	_	SLB/SRB	Z2/Z3
ZONE		OFF	SLA/SRA	_	SLB/SRB	Z2
(MONO)	OFF	ON	SLA/SRA	_	SLB/SRB	Z3
	UII	OFF	SLA/SRA	SBL/SBR	SLB/SRB	-
	ON	ON	SLA/SRA	-	FL/FR	Z2 L/R
Bi &		OFF	SLA/SRA	-	FL/FR	Z2 L/R
ZONE2	OFF	ON	SLA/SRA	SBL/SBR	FL/FR	-
		OFF	SLA/SRA	SBL/SBR	FL/FR	-
	ON	ON	SLA/SRA	_	FL/FR	Z3 L/R
Bi &		OFF	SLA/SRA	SBL/SBR	FL/FR	-
ZONE3	OFF	ON	SLA/SRA	-	FL/FR	Z3 L/R
	011	OFF	SLA/SRA	SBL/SBR	FL/FR	_
-	ON	ON	SLA/SRA	-	FL/FR	Z2/Z3
Bi &		OFF	SLA/SRA	-	FL/FR	Z2
ZONE(MONO)	OFF	ON	SLA/SRA	-	FL/FR	Z3
		OFF	SLA/SRA	SBL/SBR	FL/FR	-
701150/	ON	ON	-	-	Z3 L/R	Z2 L/R
ZONE2/		OFF	SLA/SRA	-	-	Z2 L/R
ZONE3	OFF	ON	-	-	Z3 L/R	_
		OFF	SLA/SRA	SBL/SBR	-	-
701150/0	ON	ON	-	-	Z3(MONO)	Z2(MONO)
ZONE2/3		OFF	SLA/SRA	-	-	Z2(MONO)
(MONO)	OFF	ON	-	-	Z3(MONO)	-
		OFF	SLA/SRA	SBL/SBR	-	-

Troubleshooting

If a problem should arise, first check the following:

- 1. Are the connections correct?
- 2. Is the set being operated as described in the owner's manual?
- 3. Are the other components operating properly?

If this unit does not operate properly, check the items listed in the table below. Should the problem persist, there may be a malfunction.

In this case, disconnect the power immediately and contact your store of purchase.

[General]

Symptom	Cause	Countermeasure	Page
Power does not turn on, or turns off directly after it was turned on.	• Connection of the power cord is faulty.	• Check that the power plug is securely inserted into the AVR- 5308Cl's AC inlet and the wall power outlet.	24
No sound is produced from speakers.	• Connection with the input devices or connection of the speaker cables is faulty.	Check the connections.	10
	• Device you want to play and set input source do not match.	• Select an appropriate input source.	43, 44
	• Master volume is turned too low.	 Adjust the master volume to an appropriate level. 	56
	• Mute mode is set.	Cancel the mute mode.	56
	• Headphones are connected.	 Disconnect the headphones. 	56
	 No digital signals are being input. 	 Select an input source for which the digital input setting has been made. 	46
	• The connectors to which the digital inputs are assigned and the settable input modes do not match.		45
Display is off.	• The "Dimmer" setting is set to "OFF".	• Set to something other than "OFF".	42
	• The PURE DIRECT mode is set.	• Set a surround mode other than the PURE DIRECT mode.	50
"DOLBY DIGITAL" indicator does not appear on display.	 DVD player's digital audio output setting is not proper. 	• Check the DVD player's audio output setting. For details, read the DVD player's operating instructions.	_

Symptom	Cause	Countermeasure	Page
Power turns off suddenly and power indicator	• Protection circuit activated due to rise of internal temperature.	• Turn off the power, wait for the set to fully cool down, then turn the power back on.	11
flashes red.		• Place the set in a well-ventilated place.	11
	 Core wires of two speakers are touching each other or a core wire is sticking out of the terminal and touching the set's rear panel, activating the protection circuit. 	• First unplug the power cord, then twist the core wires tightly or terminate the speaker cables, then reconnect.	11
	• Speakers with an impedance other than specified are being used.	• Use speakers with the specified impedance.	11
	• Set is damaged.	• Turn off the power and contact a DENON service center.	-

[Remote Control Unit]

Symptom	Cause	Countermeasure	Page
Set does not work	• Batteries are worn.	• Replace with new batteries.	3
properly when	• You are operating outside of the	• Operate within the specified	4
remote control	specified range.	range.	
unit operated.	• Obstacle between main unit and remote control unit.	Remove the obstacle.	4
	• The batteries are not inserted in the proper direction, as indicated by the polarity marks in the battery compartment.		3, 4
	• The set's remote control sensor is exposed to strong light (direct sunlight, inverter type fluorescent bulb light, etc.).		4
	• The remote ID of the main unit and remote control unit do not match.		41, 79

Getting Started Connections Setup Playback

[Audio]

Symptom	Cause	Countermeasure	Page
No sound is produced from center speaker.	 You are playing a monaural source (TV, AM radio broadcast, etc.) in the "STANDARD" (Dolby/ DTS Surround) or "HOME THX CINEMA" mode. 	other than "STANDARD" (Dolby/ DTS Surround) or "HOME THX	48, 49
No sound is produced from surround	• The surround mode is set to "STEREO", "DIRECT" or "PURE DIRECT".	• Set to a surround playback mode.	48 ~ 5
speakers.	• The surround speaker's power amplifier is assigned to a different channel.	Check the setting and change it as necessary.	40
No sound is produced from	• Surround back speaker setting is set to "None".	• Set to something other than "None".	30
surround back speaker.	• Surround mode not set to a mode for 6.1- or 7.1-channel playback.	mode.	48 ~ 5
	• The surround back speaker's power amplifier is assigned to a different channel.	as necessary.	40
No sound is produced from	• Subwoofer's power not turned on.	• Turn on the subwoofer's power.	-
subwoofer.	• The "Subwoofer" setting at "Speaker configuration" is set to "No".	• Set to "Yes"	30
	• The subwoofer is not properly connected.	• Check the connections.	10
	• The subwoofer's volume is turned off.	• Adjust the subwoofer's volume to an appropriate level.	74
No test tones are produced when main remote control unit's TEST TONE button is pressed.	 Surround mode not set to "STANDARD" (Dolby/DTS Surround) or "HOME THX CINEMA" mode. 	DTS Surround) or "HOME THX	48, 4
DTS sound is not output.	• DVD player's audio output setting is not set to bitstream.	refer to the DVD player's operating instructions.	_
	• DVD player is not compatible with DTS sound playback.		_
	Mode" setting is set to "PCM".	• Set to the "Auto" or "DTS" mode.	46
HDMI audio signals are not output from speakers.	• The "Manual Setup" – "HDMI Setup" – "Audio" setting is set to "TV".	• Set to "Amp".	33

Symptom	Cause	Countermeasure	Page
No sound is output from the monitor connected with HDMI connections.	• The "Manual Setup" – "HDMI Setup" – "Audio" setting is set to "Amp".		33

[Video]

Symptom	Cause	Countermeasure	Page
The on-screen display does not appear.	• The format of the GUI and TV (NTSC or PAL) do not match.	• Match the format of the GUI and TV.	40
No picture appears.	• The connections between the AVR-5308CI and monitor are faulty.	Check the connections.	10 ~ 24
	• The monitor's input setting is wrong.	• Set properly.	-
	• PURE DIRECT mode is set.	• Cancel the PURE DIRECT mode.	50
	• The player is connected using the component input connectors, the monitor is connected using the video (yellow) or S-Video output connectors.	High definition (1080i/720p) and progressive (480p/576p) video signals are not down-converted. Set the player to interlace (480i/576i) signals.	_
No picture	• The connections to the HDMI	Check the connections.	12
appears with HDMI connections.	 connectors are faulty. HDMI input setting is improper. The monitor is not compatible with copyright protection (HDCP). 	 Check the HDMI input setting. Connect a monitor that is compatible with copyright protection (HDCP). 	45, 46 12
	• The HDMI format of the player and monitor do not match.	• Match the HDMI format of the player and monitor.	12
Picture cannot be recorded.	 Input source does not match recorder's video connection connector (video or S-Video). 	• The video conversion function does not work for the REC OUT connectors. Match the input source and recorder connections.	16, 17
DVDs cannot be copied on a VCR.	_	• This is not a malfunction. Most movie software includes copy prevention signals and cannot be copied.	-

[iPod]

Symptom	Cause	Countermeasure	Page
iPod cannot be played.	• The input source assigned to "iPod dock" is not selected.	 Switch to the input source assigned at "iPod dock". 	43, 47
	• Cable is not properly connected.	Reconnect.	14
		• Plug the Control Dock for iPod's AC adapter into a power outlet.	-

[NET/USB/Rhapsody]

Symptom	Cause	Countermeasure	Page
When a USB memory device	• The set cannot recognize a USB memory device.	Check the connection.	19
is connected, "USB" is not displayed on the	• A USB memory device not conforming to mass storage class or MTP standards is connected.	 Connect a USB memory device conforming to mass storage class or MTP standards. 	-
GUI menu.	• The set port and the connected port do not match.	 Connect to the port set at "USB Select". 	47
	• A USB memory device that the set cannot recognize is connected.	 This is not a malfunction. DENON does not guarantee that all USB memory devices will operate or receive power. 	-
	• USB memory device is connected via USB hub.	• Connect the USB memory device directly to the USB port.	-
Files on a USB memory device cannot be played.	• USB memory device is in format other than FAT16 or FAT32.	 Set the format to FAT16 or FAT32. For details, refer to the USB memory device's operating instructions. 	_
	• USB memory device is divided into multiple partitions.	• When divided into multiple partitions, only files stored in the top partition can be played.	-
	• Files are stored in a non- compatible format.	• Record the files in a compatible format.	64, 65
	• You are attempting to play a file that is copyright protected.	• Files that are copyright protected cannot be played on this set.	64, 65
The file names are not displayed properly ("", etc.).	 Characters that cannot be displayed are used. 	• This is not a malfunction. On this set, characters that cannot be displayed are replaced with a ". (period)".	_

Symptom	Cause	Countermeasure	Page
Internet radio cannot be played.	• Ethernet cable is not properly connected or network is disconnected.	• Check the connection status.	22
	• Program is being broadcast in non-compatible format.	• Only Internet radio programs in MP3 and WMA can be played on this set.	64, 65
	 The computer's or router's firewall is activated. Radio station is not currently 	 Check the computer's or router's firewall settings. Choose a radio station that is 	- 66
	Inadio station is not currently broadcasting.IP address is wrong.	 Choose a radio station that is currently broadcasting. Check the set's IP address. 	38
Files stored on a computer cannot	Files are stored in a non- compatible format. You are attempting to play a file	Record in a compatible format.	64, 65 64, 65
be played.	 You are attempting to play a file that is copyright protected. Set and computer are connected by USB cable. 	 Files that are copyright protected cannot be played on this set. The set's USB port cannot be used for connection to a computer. 	-
Server is not found, or it is	• The computer's or router's firewall is activated.	• Check the computer's or router's firewall settings.	-
not possible to connect to the	Computer's power is not turned on. Somer is not running	Turn on the power.Launch the server.	-
server.	Server is not running.Set's IP address is wrong.	Check the set's IP address.	- 38
Cannot connect to preset or favorite	Radio station is not currently broadcasting.	• Wait a while before trying again.	-
radio stations.	Radio station is not currently in service.	 It is not possible to connect to radio stations that are no longer in service. 	-
For some radio stations, "Server Full" or "Connection Down" is displayed and station cannot be connected to.	 Station is congested or not currently broadcasting. 	• Wait a while before trying again.	-
Sound is broken during playback.	• Network's signal transfer speed is slow or communications lines or radio station is congested.	• This is not a malfunction. When playing broadcast data with a high bit rate, the sound may be broken, depending on the communications conditions.	-
Sound quality is poor or played sound is noisy.	• File being played has a low bit rate.	• This is not a malfunction.	_

Getting Started Connections Setup Playback Remote Control Multi-Zone Information Troubleshooting

Symptom	Cause	Countermeasure	Page
Cannot login to Rhapsody. ("Username	Login information is incorrect.	 Check if the Username for Rhapsody has been properly entered. 	38
or Password is incorrect" is		 Re-enter the Password. (Password is not displayed.) 	38
displayed)	• Trial period has expired.	Get a full account. <u>www.rhapsody.com/denon/signup</u>	65, 68
Cannnot play.	• When the trial period has finished, there is a limit to the playing time and number of tracks that can be played.	Get a full account. <u>www.rhapsody.com/denon/signup</u>	65, 68
Stops in the middle of playing.	• When the trial period has finished, there is a limit to the playing time and number of tracks that can be played.	• Get a full account.	65, 68
Cannot compile Playlist.	• The AVR-5308Cl does not respond to playlist compilation.	• When the playlist is compiled in "PC Application", it is registered to "My Library". In this way, the playlist can be played in AVR- 5308CI.	-
		≫ Need full account.	
Cannot delete Rhapsody Channel registered in "My Channels".	Cannot be done with AVR- 5308CI.	• Delete from "PC Application"	-
Cannot delete Tracks, Playlists, Channels registered in "My Library".	Cannot be done with AVR- 5308CI.	 Delete from "PC Application". Weed full account. 	_

[Wireless LAN]

Symptom	Cause	Countermeasure	Page
Cannot connect to network.	•The settings of the SSID and network key (WEP) are incorrect.	5	36 ~ 38
	• The reception is poor and the signals cannot be received.	 Shorten the distance from the wireless LAN's access point, remove any obstacles and otherwise improve visibility, then try reconnecting. Also install away from microwave ovens and the access points of other networks. 	-
	• There are multiple networks and the usable channels overlap.	 Set the access point's channel settings away from the channels used for other networks. Alternatively, connect using a network cable. 	-
Played sound is interrupted or sound cannot be played.	• There are multiple networks and the usable channels overlap.	• Set the access point's channel settings away from the channels used for other networks. Alternatively, connect using a network cable.	-

[XM Satellite Radio]

Symptom	Cause	Countermeasure	Page
"CHECK XM TUNER" is displayed in the XM mode.	• The XM Mini-Tuner is not installed or not fully seated in the XM Mini-Tuner Dock or the XM Mini-Tuner dock is not connected to the AVR-5308CI.	fully seated in the dock and check the XM Mini-Tuner dock cable is	20
"CHECK ANTENNA" is displayed in the XM mode.	• The XM antenna is not connected to the XM Mini-Tuner Dock or the XM antenna cable is damaged.	• Check that the XM antenna is securely connected to the XM Mini-Tuner Dock and check the antenna cable for damage. Replace the XM antenna if the cable is damaged.	20

[XM Satellite Radio]

Symptom	Cause	Countermeasure	Page
"LOADING" is displayed in the XM mode.	• The XM Mini-Tuner is acquiring audio or program information from the XM satellite signal. This message can also occur in weak XM signal conditions. (Note that the AVR-5308CI may not respond to some buttons for XM while this message is displayed.)	• This message should disappear in a few seconds in good signal conditions. If you see this message often, reposition the XM antenna for better signal reception.	60
"NO SIGNAL" is displayed in the XM mode.	• The XM Mini-Tuner is not receiving the XM satellite signal. Something may be blocking the XM antenna's view of the satellites or the antenna is not properly aimed.	• Check for antenna obstructions and reposition the XM antenna to get better signal reception. See instructions supplied with the XM Mini-Tuner and Dock for antenna installation information.	60
"OFF AIR" is displayed in the XM mode.	• You selected an XM channel is not currently broadcasting.	• Check back later; in the mean time, select another channel.	60, 61
"UP DATING" is displayed in the XM mode.	• You selected an XM channel that is blocked or cannot be receive with your XM subscription package.	Consult the latest channel guide at <u>www.xmradio.com</u> for the current list of channels. For information on receiving this channel, visit <u>www.xmradio.com</u> or contact XM Satellite Radio at 1-800-967-2346.	_
"XM " is displayed in the XM mode.	• The selected channel is not available. The channel may have been reassigned to a different channel number. This message may occur initially with a new radio or a radio that has not received XM's signal for an extended period.	• Consult the latest channel guide at <u>www.xmradio.com</u> for the current list of channels. For cases of a new radio or a radio that has not received XM's signal for an extended period, allow the radio to receive the XM satellite signal for at least 5 minutes and then try to select the channel again.	-

Specifications

Audio section		
Power amplifier	F .	
Rated output:	Front:	
		20 Hz ~ 20 kHz with 0.05 % T.H.D.)
	170 W + 170 W (6 Ω/ohms,	1 kHz with 0.7 % I.H.D.)
	Center:	
	150 W (8 Ω/ohms, 20 Hz ~ 2	
	170 W (6 Ω/ohms, 1 kHz wit	h 0.7 % T.H.D.)
	Surround (A + B):	
		20 Hz ~ 20 kHz with 0.05 % T.H.D.)
	170 W + 170 W (6 Ω/ohms,	1 kHz with 0.7 % T.H.D.)
	Surround back:	
	150 W + 150 W (8 Ω/ohms,	20 Hz ~ 20 kHz with 0.05 % T.H.D.)
	170 W + 170 W (6 Ω/ohms,	1 kHz with 0.7 % T.H.D.)
Dynamic power:	200 W x 2ch (8 Ω/ohms)	
	340 W x 2ch (4 Ω/ohms)	
Output connectors:	Front, Center, Surround back	6 ~ 16 Ω/ohms
	Surround: A or B	6 ~ 16 Ω/ohms
	A + B	8 ~ 16 Ω/ohms
Analog		
Input sensitivity / Input impedance:	200 mV / 47 kΩ/kohms	
Frequency response:	10 Hz ~ 100 kHz +1, -3 dB (DI	RECT mode)
S/N:	102 dB (IHF–A weighted, DIRE	ECT mode)
Distortion:	0.005 % (20 Hz ~ 20 kHz, DIR	ECT mode)
Rated output:	1.2 V	
• Digital		
D/A output:	Rated output — 2 V (at 0 dB pl	layback)
	Total harmonic distortion — 0.	005 % (1 kHz, at 0 dB)
	Dynamic range — 110 dB	
Digital input:	Format — Digital audio interfac	ce
• Phono equalizer (PHONO input - REC	OUT)	
Input sensitivity:	2.5 mV	
RIAA deviation:	±1 dB (20 Hz to 20 kHz)	
S/N:	74 dB (A weighting, with 5 mV	' input)
Rated output:	150 mV	
Distortion factor:	0.03 % (1 kHz, 3 V)	

Video section Getting Started Standard video connectors **Input / output level and impedance:** 1 Vp-p, 75 Ω/ohms 5 Hz ~ 10 MHz — +0, -3 dB (when video convert set to "OFF") Frequency response: • S-Video connectors **Input / output level and impedance:** Y (brightness) signal — 1 Vp-p, 75 Ω/ohms C (color) signal — 0.286 Vp-p, 75 Ω/ohms Connections Frequency response: 5 Hz ~ 10 MHz — +0, -3 dB (when video convert set to "OFF") Color component video connector Input / output level and impedance: Y (brightness) signal — 1 Vp-p, 75 Ω/ohms PB / CB signal — 0.7 Vp-p, 75 Ω/ohms Pr / Cr signal — 0.7 Vp-p, 75 Ω/ohms Setup Frequency response: 5 Hz ~ 100 MHz - +0, -3 dB (when video convert set to "OFF") **Tuner section** [FM] (note: μ V at 75 Ω /ohms. 0 dBf = 1 x 10⁻¹⁵ W) Playback **Receiving Range:** 87.5 MHz ~ 107.9 MHz Usable Sensitivity: 1.0 µV (11.2 dBf) 50 dB Quieting Sensitivity: MONO 1.6 µV (15.3 dBf) Remote Control STEREO 23 µV (38.5 dBf) S/N (IHF-A): MONO 77 dB STEREO 72 dB Total harmonic Distortion (at 1 kHz): MONO 0.2 % STEREO 0.3 % HD Radio section [[]]

HD Radio section		[FM]	[AM]
	(note: µV	at 75 Ω/ohms, 0 dBf = 1 x 10 ⁻¹⁵ W)	
Receiving Range:	87.5 MHz	~ 107.9 MHz	530 kHz ~ 1710 kHz
Usable Sensitivity:	1.0 μV (11	.2 dBf)	20 µV
50 dB Quieting Sensitivity:	MONO	1.6 μV (15.3 dBf)	
	STEREO	23 μV (38.5 dBf)	
S/N (IHF-A):	MONO	77 dB	
	STEREO	72 dB	
	HD	85 dB	85 dB
Total harmonic Distortion (at 1 kHz):	MONO	0.2 %	
	STEREO	0.3 %	
	HD	0.01 %	0.01 %

U Wireless LAN

[AM]

19 µV

520 kHz ~ 1710 kHz

rds) : Conforming to IEEE 802.11b
Conforming to IEEE 802.11g
(Conforming to Wi-Fi [®]) *
DS-SS: 11 / 5.5 / 2 / 1 Mbps (Automatic switching)
OFDM: 54 / 48 / 36 / 24 / 18 / 12 / 9 / 6 Mbps (Automatic switching)
SSID (Network name)
WEP key (network key) (64/128 bits)
WPA-PSK (TKIP/AES)
WPA2-PSK (TKIP/AES)
2,412 MHz ~ 2,462 MHz
Conforming to IEEE 802.11b : 11ch (DS-SS) (Of which 1 channel used) Conforming to IEEE 802.11g : 11ch (OFDM) (Of which 1 channel used)
AC 120 V, 60 Hz
11 A
0.3 W (Standby)
434 (W) x 217 (H) x 500 (D) mm (17-3/32" x 8-35/64" x 19-11/16")
28.5 kg
RC-1067)
LR6/AA Type (two batteries)
63 (W) x 238 (H) x 31 (D) mm (2-31/64" x 9-3/8" x 1-7/32")
190 g (Approx 6.7 oz) (including batteries)
C-1070)
R03/AAA Type (two batteries)
49 (W) x 220 (H) x 24.5 (D) mm (1-59/64" x 8-21/32" x 31/32")

* For purposes of improvement, specifications and design are subject to change without notice.

List of preset codes

	_	
_	enon Amp	
)	Denon	81001, 82001, 83001, 84001
D	enon Tuner	
)	Denon (Analog)	52863, 52795, 52800, 52805
	Denon (XM Radio)	52864, 52812, 52813, 52814
)	enon Digital	Tuner
)	Denon (NET)	62865, 62837, 62838, 62839
	Denon (HD Radio)	62840, 62841, 62842, 62843
)(enon iPod	
	Denon	72815, 72816, 72817, 72818
ł	able	
	A-Mark	00008, 00144
Ì	ABC	00237, 00003, 00008
ľ	Accuphase	00003
Ì	Acorn	00237
ľ	Action	00237
Ì	Active	00237
ľ	ADB	01230
Ì	Aichi Denshi	01512
ĺ	Americast	00899
I	Amstrad	01222
ĺ	Archer	00237
1	Auna	01230
ĺ	Austar	00276
	BCC	00276
ĺ	Bell South	00899
	Bestlink	00303
	Birmingham Cable Communications	00276
	British Telecom	00003
,	Cable & Wireless	01068
	Century	00008
	Coship	01462
ļ	Daehan	00778
1	Daeryung	01877, 00877, 00477, 00008
ļ	Digeo	01187
ļ	Director	00476
	DX Antenna	01500
1	Emerson	00303
	Encon	80000
	Fosgate	00276
ì	Foxtel	01222

_		
	Freebox	01482
	Fujitsu	01497
G	Galaxi	80000
	GE	00237, 00144
	Gehua	00476
	General Instrument	00476, 00810, 00276, 00003
	Gibralter	00003
	GNI	01466
	GoldStar	00144
H.	Hitachi	00003, 00008
	Hongtian Jiangsu	01462
	Hwalin	00303
	Insight	00476, 00810
J	Jerrold	00476, 00810, 00276, 00003
	Jiuzhou	01445
Κ	KNC	00008
L	LG	00144
M	Macab	00817
	Madritel	01230
	Maspro	01510
	Matav	01082
	Memorex	00000
	Mitsubishi	00003
	Motorola	01376, 00476, 00810, 00276,
	MS	01187 00303
N	NEC	01496
· · · ·	Noos	00817
	Nova Vision	00008
1	Novaplex	00008
	NTL	00276, 00003, 01060, 01068
0	Oak	00303
•	Ono	01068
- 1	Optus	00276, 01060
Р	Pace	01877, 00877, 00237, 00008,
F		01060, 01068, 01577
	Panasonic	00000, 00008, 00144, 01488
	Paragon	00000, 00008, 00525
	Penney	00000
	Philips	01305, 00317, 00817
	Pioneer	01877, 00877, 00144, 00533, 01500
	Pulsar	00000
	PVP Stereo Visual Matrix	00003
0	Quasar	00000
R	RadioShack	00303
	Regal	00276
	Runco	00000
S	Sagem	00817
	Salora	00000
	Samsung	00003, 00000, 00144, 00778, 00840, 01060, 01666

		01077 00077 00477 00227
	Scientific Atlanta	01877, 00877, 00477, 00237, 00003, 00000, 00008, 01510
	Skyworth	01464
	Sony	01006, 01460
	Sprucer	00144
	Starcom	00003
	StarHub	00276
	Sumitomo	01500, 01504
	Supercable	00276
T	Taihan	00778
	TCL	01445
	Telewest	01068
	Time Warner cable	01877
	TongKook	00840
	Torx	00003
	Toshiba	00000, 01509
	Trans PX	00276, 00303
	TS	00003, 00303
U	United Cable	00276, 00003
	US Electronics	00276, 00003, 00008
V	Videoway	00000
	Visiopass	00817
Ζ	Zenith	00000, 00525, 00899
Ca	able/PVR Coi	mbination % 1
Α	Americast	00899
D	Digeo	01187
F	Freebox	01482
G	General Instrument	00810
J	Jerrold	00810
Μ	Motorola	01376, 00810, 01187
Ρ	Pace	01877, 00237
	Pioneer	01877, 00877
S	Scientific Atlanta	01877, 00877
	Sony	01006
	Supercable	00276
T	Time Warner cable	01877
	-	

CD Player

Z Zenith

	-	
A	Acoustic Research	40420
	Advantage	40032
	Aiwa	40157
	Arcam	40157
	Audio Research	40157
	Audiolab	40157
	Audiomeca	40157
	Audioton	40157
	AVI	40157

00899

	Delevered Audie	
B	Balanced Audio Technology	40157
	Burmester	40420
	Bush	40388
C	Cairn	40157
	California Audio Labs	40029, 40303
	Cambridge	40157
	Cambridge Audio	40157
	Cambridge	40157
	Soundworks	
	Carver	40157, 40179
	CDC	40420
	CEC	40420
	Copland	40393
	Curtis Mathes	40032
_	Cyrus	40157 40873, 40003, 40766,
D	Denon	[42867] *, 42868
	DKK	40000
	DMX Electronics	40157
	Dual	40003
	Dynaco	40157
	Dynamic Bass	40179
F	Fisher	40000, 40179
G	Garrard	40393, 40420
	Genexxa	40000, 40032, 40037, 40179
	Goldmund	40157
	Grundig	40157
н	Hafler	40173
	Harman/Kardon	40100, 40157, 40173
	Hitachi	40032
	Inkel	40157
	Integra	40101
J	Jerrold	40003
	JVC	40032, 40072
K	Kenwood	40681, 40000, 40029, 40157, 40028, 40037, 40036, 40190
	KLH	41318
	Krell	40157
L	Linn	40157
	Loewe	40157
	Luxman	40393
	LXI	40179
M	Magnavox	40157
	Marantz	40029, 40157
	Matsui	40157
	MCS	40029
	Memorex	40000, 40032, 40179, 40420,
	Meridian	40468 40157
		40157
	Micromega Miro	40157
	Mission	40000 40157
	1111221011	401J/

	Modulaire	40000, 40032, 40087, 40179, 40420, 40468
	MTC	40420
	Musical Fidelity	40393
	Myryad	40157
N	NAD	40000, 40721
-	Naim	40157
	NSM	40157
0	Onkyo	40868, 40101
	Optimus	40000, 40032, 40037, 40087, 40179, 40393, 40420, 40468
	Orion	40179, 40393, 40420, 40468 40393
Р		40029, 40303, 40388, 40752
	Parasound	40420
	Penney	40029
	Philips	40157
	Pioneer	40032, 40101, 40468
	Polk Audio	40157
	Proceed	40420
	Proton	40157
0	QED	40157
	Quad	40157
	Quasar	40029
R	Radiola	40157
	RadioShack	40000, 40032, 40179, 40420 40468
	RCA	40032, 40053, 40179, 40420 40468
	Realistic	40000, 40032, 40087, 40179 40420, 40468
	Restek	40157
	Revox	40157
	Roksan	40420
	Rotel	40157, 40420
	Royal	40420
S	SAE	40157
,	Saisho	40000
	Sansui	40000, 40157
	Sanyo	40000, 40087, 40179
	SAST	40157 40179
	Sears Sharp	40037
	Siemens	40037
	Silsonic	40036
_	Simaudio	40157
	Sonic Frontiers	40157
	Sony	40490, 40000, 40100, 41364 40185
,	Sugden	40157
	Sylvania	40157
LΤ	TAG McLaren	40157
- 1	Tandy	40032

	Teac	40490, 40393, 40420
	Technics	40029, 40303
	Techwood	40303
	Thomson	40053
	Thorens	40157
	Thule Audio	40157
	Tokai	40420
U	Universum	40157, 40053
V	Victor	40072
W	Wadia	40393
	Wards	40000, 40032, 40157, 40053, 40087, 40179
Υ	Yamaha	40490, 40868, 40032, 40036
	Yorx	40000

UD Recorder	CD	Record	er
-------------	----	--------	----

D	Denon	40766, 42868
J	JVC	40072
R	RCA	40053, 40420
S	Sony	40000, 40100, 41364
Т	Teac	40420
	Thomson	40053

Ta	ape Deck	
Α	Aiwa	20029, 20197, 20200, 21315
	Akai	20283, 20439
	Arcam	20076
	Audiolab	20029
C	Carver	20029
D	Denon	20076, 20371, 21311, [22471] *
F	Fisher	20074
G	Garrard	20308, 20309, 20375, 20439
	Genexxa	20439
	GoldStar	20375
	Grundig	20029, 20375
H	Harman/Kardon	20182, 20029, 21314
L	Inkel	20070, 20071, 20337
J	JVC	20244, 20273, 20274, 20303, 20304, 20310, 21309
K	Kenwood	20070, 20071, 20092, 20233, 20234, 21364
L	LG	20375
	Luxman	20308, 20309
M	Magnavox	20029
	Marantz	20029, 20009
	Memorex	20099
	Mitsubishi	20283, 20439
	Myryad	20029
0	Onkyo	20135, 20136, 20282
	Optimus	20027, 20220, 20337, 20439
	Orion	20308, 20309

Ρ						
Г	Palladium	20375				P
	Panasonic	20229				
	Philips	20029,	20229			
	Phonotrend	20337				R
	Pioneer	20027, 21306,	20220, 21312	20099,	20109,	S
_	Polk Audio	20029				
R	Radiola	20029				
	RCA	20027,	20220			
_	Revox	20029				
S	Sansui	20029,	20009			
	Sanyo	20074				
	Sharp	20231,	20371			Т
	Sherwood	20337				•
	Sonic	20375	00170	00004		
_	Sony	21313	20170,	20291,	20234,	V
T	TaeKwang	20439				
	Tandberg	20109				
	Teac	20280, 20309	20283,	20289,	20308,	Z
	Technics	20229				2
	Technovox	20229				
	Thorens	20029				S
U	Universum	20375,	20439			A
1	Victor	20244	20273	20274		
V	VICTO	20244,	20273,	20271		
Ξ.	Wards	20027,		20271		
Ŵ	Wards Wharfedale	20027, 20439	20029	20271		
V W Y	Wards	20027,	20029	20271		
Ŵ	Wards Wharfedale	20027, 20439 20097,	20029	20271		
Ŵ Y H	Wards Wharfedale Yamaha	20027, 20439 20097,	20029	20271		
Ŵ Y	Wards Wharfedale Yamaha DTV Tuner **	20027, 20439 20097,	20029	20271		
Ŵ Y	Wards Wharfedale Yamaha DTV Tuner ** ABS	20027, 20439 20097, 01272	20029	20271		
Ŵ Y H A	Wards Wharfedale Yamaha DTV Tuner ** ABS Accurian Alienware	20027, 20439 20097, 01272 01653 01272	20029	20271		
Ŵ Y H A	Wards Wharfedale Yamaha DTV Tuner ** ABS Accurian Alienware CyberPower	20027, 20439 20097, 01272 01653 01272 01272	20029	20271		
Ŵ Y H A	Wards Wharfedale Yamaha DTV Tuner ** ABS Accurian Alienware	20027, 20439 20097, 01272 01653 01272	20029	20271		
W Y H A C D	Wards Wharfedale Yamaha DTV Tuner ** ABS Accurian Alienware CyberPower D-Link	20027, 20439 20097, 01272 01653 01272 01272 01272 01254	20029			
Ŵ Y H A C D E	Wards Wharfedale Yamaha DTV Tuner ** ABS Accurian Alienware CyberPower D-Link Dgtec	20027, 20439 20097, 01272 01653 01272 01272 01272 01254 01363	20029			
W Y H A C D E G	Wards Wharfedale Yamaha DTV Tuner ** ABS Accurian Alienware CyberPower D-Link Dgtec Epson	20027, 20439 20097, 01272 01653 01272 01272 01254 01363 01563	20029			
W Y H A C D E G	Wards Wharfedale Yamaha DTV Tuner ** ABS Accurian Alienware CyberPower D-Link Dgtec Epson Gateway	20027, 20439 20097, 01272 01653 01272 01272 01272 01254 01363 01563 01272	20029			
V Y H A C D E G	Wards Wharfedale Yamaha DTV Tuner ** ABS Accurian Alienware CyberPower D-Link Dgtec Epson Gateway Hewlett Packard	20027, 20439 20097, 01272 01653 01272 01272 01554 01363 01563 01272 01272,	20029 20094 01267			
V Y H A C D E G	Wards Wharfedale Yamaha DTV Tuner ** ABS Accurian Alienware CyberPower D-Link Dgtec Epson Gateway Hewlett Packard Howard Computers	20027, 20439 20097, 01272 01653 01272 01272 01254 01363 01263 01272 01272, 01272, 01272	20029 20094 01267			
V Y H A C D E G	Wards Wharfedale Yamaha DTV Tuner ** ABS Accurian Alienware CyberPower D-Link Dgtec Epson Gateway Hewlett Packard Howard Computers HP	20027, 20439 20097, 01272 01653 01272 01554 01363 01563 01272 01272, 01272, 01272,	20029 20094 01267			
V Y H A C D E G H	Wards Wharfedale Yamaha DTV Tuner ** ABS Accurian Alienware CyberPower D-Link Dgtec Epson Gateway Hewlett Packard Howard Computers HP Hush	20027, 20439 20097, 01272 01653 01272 01272 01554 01363 01563 01272 01272, 01272, 01272, 01272, 01272	20029 20094 01267			
W Y H A C D E G H I	Wards Wharfedale Yamaha DTV Tuner ** ABS Accurian Alienware CyberPower D-Link Dgtec Epson Gateway Hewlett Packard Howard Computers HP Hush iBUYPOWER LG	20027, 20439 20097, 01272 01653 01272 01554 01363 01563 01563 01272 01272, 01272 01272, 01272 01272, 01272 01272 01272	20029 20094 01267 01267			
V Y A C D E G H I L	Wards Wharfedale Yamaha DTV Tuner ** ABS Accurian Alienware CyberPower D-Link Dgtec Epson Gateway Hewlett Packard Howard Computers HP Hush iBUYPOWER	20027, 20439 20097, 01272 01653 01272 01272 01554 01363 01563 01272 01272, 01272, 01272, 01272, 01272 01272,	20029 20094 01267 01267			
W Y A C D E G H I L	Wards Wharfedale Yamaha DTV Tuner ** ABS Accurian Alienware CyberPower D-Link Dgtec Epson Gateway Hewlett Packard Howard Computers HP Hush iBUYPOWER LG Linksys	20027, 20439 20097, 01272 01653 01272 01554 01363 01563 01272 01272, 01272, 01272, 01272, 01272, 01272, 01272, 01272, 01272,	20029 20094 01267 01267 01365			
W Y H A C D E G H I	Wards Wharfedale Yamaha DTV Tuner ** ABS Accurian Alienware CyberPower D-Link Dgtec Epson Gateway Hewlett Packard Howard Computers HP Hush iBUYPOWER LG Linksys Media Center PC	20027, 20439 20097, 01272 01653 01272 01554 01363 01563 01272 01272, 01272 01272, 01272 01272, 01272 01272, 01272, 01272, 01272, 01272, 01272, 01272,	20029 20094 01267 01267 01365			
W Y A C D E G H I L	Wards Wharfedale Yamaha DTV Tuner ** ABS Accurian Alienware CyberPower D-Link Dgtec D-Link Dgtec Epson Gateway Hewlett Packard Howard Computers HP Hush iBUYPOWER LG Linksys Media Center PC Microsoft	20027, 20439 20097, 01272 01653 01272 01554 01363 01563 01563 01272 01272, 01272 01272, 01272 01272, 01272, 01272, 01272, 01272, 01272,	20029 20094 01267 01267 01365			
W Y A C D E G H I L	Wards Wharfedale Yamaha DTV Tuner ** ABS Accurian Alienware CyberPower D-Link Dgtec D-Link Dgtec Epson Gateway Hewlett Packard Howard Computers HP Hush iBUYPOWER LG Linksys Media Center PC Microsoft Mind	20027, 20439 20097, 01272 01653 01272 01554 01363 01563 01563 01272 01272, 01272 01272, 01272 01272, 01272 01272, 01272, 01272, 01272, 01272, 01272, 01272, 01272, 01272,	20029 20094 01267 01267 01365			

Р	Packard Bell	01272
ľ	Panasonic	01272
	Pioneer	01010
R	Ricavision	01272
S	Samsung	01190, 01490
3	0	01136, 01450
	Sensory Science Sharp	01010
	SMC	01456
	Sony	01272, 01324, 01364
	Stack 9	01272, 01324, 01304
	Sylvania	01563
	Systemax	01505
т	Tagar Systems	01272
	Toshiba	01272
	Touch	01272
v	Viewsonic	01272, 01329
v	Vizio	01272, 01329
	Vizio	01120
Х	Xbox	01272
ź	ZT Group	01805
2	21 010up	01272
		_
S	atellite Rece	iver
Α	@sat	01300
	@Sky	01334
	A-Mark	00345
	ABsat	00123, 00713
	ADB	00642, 01259, 01367, 01418,
	AGS	01473, 01491 00710
	Aus	01514
	Akai	00200
		00455, 00713, 01284, 01659,
	Alba	01811
	Allsat	00200, 01043
	Alltech	00713
	Allvision	01232, 01334, 01412
	AlphaStar	00772
	Amitronica	00713
	Amstrad	00345, 00713, 00795, 00847, 00863, 00882, 01113, 01175, 01693, 01801
	Anglo	00713
	Ankaro	00713
	AntSat	01083
	Apollo	00455
	Arcon	01043, 01075
	Armstrong	00200
	Arnion	01300

01334

00713 00853

00710

Asat ASCI

ASLF

AssCom Astacom

Aston	00142	
Astra	00713	
Astratec	01743	
Astro	00173, 00658, 01099, 01100, 01113	
Atlantic Telephone	01333	D
Atsat	01300	
AtSky	01334	
Audioline	01672	
Aurora	00642, 00879, 01333, 01433	
Austar	00497, 00642, 00863, 00879, 01176, 01259	
Axiel	00710	
Axil	01457, 01659	
Axis	01111	
B@ytronic	01412	
Beko	00455	
Bell ExpressVu	00775	
Big Sat	01457	
Black Diamond	01284	
Blaupunkt	00173	
Blue Sky	00713	
Boca	00713, 01232, 01366	
Boston	00710, 01251	
Brainwave	00658, 01672	
British Sky Broadcasting	00847, 01175, 01662, 01847	
Broco	00713	
BskyB	00847, 01175, 01662	
BT	00710, 01296	
Bubu Sat	00713	
Bush	01284, 01645, 01672, 01743, 01811	
Canal	00853	
Canal Digital	00853, 01622	
Canal Satellite	00853, 01339, 01853	
Canal+	00853	
Centrex	01457	
CGV	01413, 01567	
Chaparral	00216	
Cherokee	00123, 00710	E
Chess	00713, 01085, 01334, 01626	
Chili	01718	
CityCom	00299, 00394, 00818, 01075, 01176, 01232	
Classic	01672	
Clatronic	01413	
0110		
CNS	01367	
CNS Comag		
	01367	
Comag	01367 01232, 01366, 01412, 01413	
Comag Condor	01367 01232, 01366, 01412, 01413 01700	
Comag Condor Conia	01367 01232, 01366, 01412, 01413 01700 01695	

В

C

Crossdigital	01109
Crown	01284
Cryptovision	00455, 00795
Cyfra+	01076
Cyrus	00200
D-box	00723, 00873, 01114
Daewoo	00713, 01111, 01296, 01743
Delfa	00863
Deltasat	01075
Dgtec	01542, 01631, 01242
Digenius	00299
Digiality	01685
Digifusion	01645, 01743
DigiLogic	01284
DigiQuest	00863, 01300, 01457, 01473
DigiSat	01232
Digisky	01457
DigitAll World	01227
Digiturk	01076
Digiwave	01631
Dijam	01296
DiPro	01367, 01543
DirecTV	01377, 00392, 00566, 00639, 01639, 01142, 00247, 00749, 01749, 00724, 00819, 01856, 01076, 01108, 00099, 01109, 01414, 01442, 01609, 01392, 01640
Discovery	00710
Dish Network System	01505, 01005, 00775, 01775
Dishpro	01505, 01005, 00775, 01775
Distratel	01283, 01704
DMT	01075
DNT	00200
Dream Multimedia	01237
DSE	01375
DSTV	00642, 00879, 01433
Durabrand	01284
DX Antenna	01530
	01330
Echostar	01505, 01005, 00775, 00455, 00610, 00713, 00853, 00871, 01086, 01200, 01323, 01409,
Echostar Einhell	01505, 01005, 00775, 00455, 00610, 00713, 00853, 00871,
	01505, 01005, 00775, 00455, 00610, 00713, 00853, 00871, 01086, 01200, 01323, 01409, 01418, 01473, 01775
Einhell	01505, 01005, 00775, 00455, 00610, 00713, 00853, 00871, 01086, 01200, 01323, 01409, 01418, 01473, 01775 00713
Einhell Elap	01505, 01005, 00775, 00455, 00610, 00713, 00853, 00871, 01086, 01200, 01323, 01409, 01418, 01473, 01775 00713 00713, 01567
Einhell Elap Elsat	01505, 01005, 00775, 00455, 00610, 00713, 00853, 00871, 01086, 01200, 01323, 01409, 01418, 01473, 01775 00713 00713, 01567 00713
Einhell Elap Elsat Elta	01505, 01005, 00775, 00455, 00610, 00713, 00853, 00871, 01086, 01200, 01323, 01409, 01418, 01473, 01775 00713 00713, 01567 00713 00200, 01659
Einhell Elap Elsat Elta Emme Esse	01505, 01005, 00775, 00455, 00610, 00713, 00853, 00871, 01086, 01200, 01323, 01409, 01418, 01473, 01775 00713 00713, 01567 00713 00200, 01659 00871
Einhell Elap Elsat Elta Emme Esse Energy Sistem	01505, 01005, 00775, 00455, 00610, 00713, 00853, 00871, 01086, 01200, 01323, 01409, 01418, 01473, 01775 00713 00713, 01567 00713 00200, 01659 00871 01631
Einhell Elap Elsat Elta Enme Esse Energy Sistem Engel	01505, 01005, 00775, 00455, 00610, 00713, 00853, 00871, 01086, 01200, 01323, 01409, 01418, 01473, 01775 00713 00713, 01567 00713 00200, 01659 00871 01631 00713, 01251

	Eurocrypt	00455	
	EuroLine	01251	
	Europa	00863	
	Europhon	00299	
	Eurosky	00262, 00299	
	Eurostar	00818	
	Eutelsat	00713	
	Expressvu	00775, 01775	
F	Fenner	00713	
	Ferguson	00455, 01291, 01743	
	Finlandia	00455	
	Finlux	00455	
	Flair Mate	00713	
	FMD	01251, 01413, 01457	
	Force	01101	
	Fortec Star	01083	
	Foxtel	00455, 00497, 00795, 00879, 01162, 01176, 01356	
	Fracapro Planet	00871	
	Fracarro	00125, 00871	
	France Telecom	00871	
	Freesat	00882	
	FTE	00863	
	FTEmaximal	00713, 00863	
	Fuba	00173, 00262, 00299, 00394, 01214, 01251, 01801	
	Fugionkyo	00125	
	Funai	01377	
ì	Galaxis	00853, 00863, 01101, 01111, 01557	
	Gardiner	00818	
	Garnet	01075	
	GbSAT	01214	
	GE	00392, 00566	•
	Gecco	01412	
	General Instrument	00869	
	General Satellite	01176	
	GF Good Friends	01043	
	GF Star	01043	ŀ
	Globo	01251, 01334, 01412, 01429, 01626	ľ
	GOD Digital	00200	
	GOI	00775, 01775	
	Gold Box	00853	
	Gold Vision	01631	
	Golden Interstar	01283	
	GoldStar	00394	
	Goodmans	00455, 01284, 01291	
	Gradiente	00887	
	Granada	00455	
	Grundig	00173, 00345, 00847, 00853, 00879, 01291	
ł	Handan	01622	
	Hanseatic	01099, 01100	

Hauppauge	01672
HB	01214, 01801
HDT	01159
Hills	01232
Hirschmann	00125, 00173, 00299, 00710, 00882, 01085, 01111, 01232, 01412
Hisense	01535
Hitachi	00749, 00819, 00455, 01250,
	01284, 01518, 01523, 01525
Homecast Hornet	01214, 01680, 01700 01300
Houston	00775
HTS	00775. 01775
Hughes Network	
Systems	01142, 00749, 01749, 01442
Humax	00863, 01176, 01225, 01406, 01427, 01675, 01743, 01790, 01915
Huth	01075
Hyundai	01075, 01159
iCan	01367
ID Digital	01176
ILLUSION sat	01557, 01631
iLo	01535
Imperial	01334, 01429, 01672
Indovision	00887
Ingelen	00882
Innova	00099
Interstar	01214
InVideo	00871
ISkyB	00887
Italtel	00871
ITT Nokia	00455, 00723, 00873
Jadeworld	00642
Jaeger	01334
Jerrold	00869
Jiuzhou	01450
JOK	00710
JVC	00775, 01507, 01531, 01775
K-SAT	00713
Kamm	00713
Kaon	01300
KaTelco	01111
Kathrein	00123, 00173, 00200, 00249, 00394, 00442, 00480, 00504, 00658, 00713, 00818, 01221, 01416, 01561, 01567
Kennex	00125
Kenwood	00853
Klap	00710
Kocmoc TB	01333
Koscom	01043
Kosmos	00442, 01333
Kreiling	00249, 00658

ł

Kreiselmeyer	00173
Kross	01695
L&S Electronic	01043, 01334
Labgear	01296
aSAT	00173, 00299
ava	01631
_egend	01718
Legrand	01718
emon	01334
enco	00713
Lenoxx	01611
_G	01075, 01414
Lifesat	00299, 00713, 01043
Lodos	01284
Logik	01284
Logix	01075
Lorenzen	00299
Luxor	00345, 00873
M Electronic	00818
M vision	01557
Magnavox	00724, 00722
Manata	00710, 00713
Manhattan	00455, 00710, 01083
Marantz	00200
Maspro	00173, 00713, 01530
Master's	00394
Matsui	00173, 00710, 01284, 01743
Maximum	01075, 01334, 01685
McIntosh	00869
MDS	01225
Mediabox	00853
Mediacom	01206
MediaSa	00853
Medion	00299, 00713, 01043, 01075,
	01232, 01334, 01412, 01626
Medison	00713
Vlega	00200
Vemorex	00724 00713, 00818, 01283, 01334,
Vetronic	01375, 01704
Vletz	00173
MiCO	01811
Micro	00713
Micro Elektronic	00713
Micro Technology	00713
Micromaxx	00299
Microstar	01075
Microtec	00713
Mitsubishi	00749, 00455
Morgan's	00200, 00713, 01232, 01412
Motorola	00869, 00856, 01473
MTEC	01214
Muller	01695

L

Μ

Multibroadcast	00642,					
Multichoice	00642, 01559,		01333,	01433,		Ph
Mx Onda	01659					
Myryad	00200					
Mysat	00713					Ph
MySky	01693,	01848,	01850			Pi
NEC	01519					Pi
NEOTION	01334					Pi
Netgem	01322					Pla
Netsat	00099,	00887				Pla
Neuf TV	01322					PN
Neuhaus	00713					Po
Neuling	01232					Pc
Neusat	00713					Pr
Nevir	01659					Pr
Next Level	00869					Pr
Nikko	00200,	00713,	00723			Pr
Noda Electronic	01704					Pr
Nokia			00751,			Pr
Nordmende	00873,		01223,	01723		Pr
OctaITV	01505	01011				Pr
Okano	00442					Pr
Omega	00887				0	QI
Opentel	01232,	01412				Qu
Optex	00394,		01043,	01283,		Qu
Optimus	01611 00724				R	Ra
Optus	00879					Ra
Orbis	01232,	01334	01/112			Ra
Orbitech	01099,		01412			R
Origo	00497	01100				
OSAT	00345					Re
P/Sat	01232					Re
i y out		00329.	00455,	00497.		RF
Pace	00795,	00847,	00853,	00887,		Ro
	01693.	01323,	01356, 01848,	01423,		Ro
Pacific	01284,					Ro
Packard Bell	01111					Ro
Packsat	00710				S	SA
Palcom	00299,	01409				Sa
Panarex	01159					Sa
Panasat	00615,	00879,	01333,	01433		Sa
Panasonic	01304, 01527	01404,	00455, 01508,	00847, 01526,		Sa
Panda	00173,	00455				Sa
Pansat	01159					Sa Sa
Patriot	00710					SA SA
Paysat	00724					Sa
peeKTon	01457					Sa
						J

Philips	01142, 00749, 01749, 00775, 00724, 00819, 01076, 00722, 00099, 00710, 00455, 00818, 00200, 00847, 00853, 00173, 01114, 00133, 01442, 01543, 01672
Phonotrend	00863, 01200
Pilotime	01339
Pino	01334
Pioneer	01142, 00329, 00853, 01308, 01442
Planet	00871
Plasmatic	00442
PMB	00713, 01611
Polytron	00394
Portland	01296
Preisner	00262, 01101, 01113, 01366
Premier	00723, 00853, 00873, 01429
Prima	00795
Primacom	01111
Primestar	00869
Profile	00710
Promax	00455
Proscan	00392, 00566
Proton	01535
QNS	01367, 01402, 01404
Quadral	00710
Quelle	00299
Radiola	00200
RadioShack	00566, 00775, 00869
Radix	00394, 00882, 01113, 01317
RCA	00392, 00566, 01142, 00775, 00855, 00143, 01291, 01392, 01442
Rebox	01214
Regal	01251
RFT	00200
Roadstar	00713, 00853
Rollmaster	01413
Rover	00713
Rownsonic	01567
SAB	01251
Saba	00710, 00820
Sabre	00455
Sagem	00820, 01114, 01253, 01307, 01690
Samsung	01377, 01142, 01276, 01108, 01109, 00853, 00863, 01206, 01442, 01458, 01570, 01609, 01700, 01916
Sat Control	01300
Sat Team	00713
SAT+	01409
Satec	00713
Satelco	01232
Satplus	01100

Satstation	01083
Schaub Lorenz	01214
Schneider	00710, 01206, 01251
Schwaiger	00394, 00504, 00863, 01075, 01083, 01111, 01317, 01334, 01412, 01457
SCS	00299
Sedea Electronique	00125, 01206, 01283, 01626
SEG	01075, 01087, 01251, 01626
Seleco	00871
Septimo	01375
Serd	01412
Serino	00610
Servimat	01611
ServiSat	00713, 01251
Sharp	01517
Siemens	00173, 01334, 01429
Silva	00299
Skantin	00713
SKB	00713
SKY	00856, 00099, 00847, 00887, 01014, 01175, 01662, 01693, 01847, 01848, 01850
SKY Italia	00853, 01693, 01847, 01848
Sky Television	01014
Sky XL	01051 01410
UNY AL	01251, 01412
Sky+	01251, 01412
	01175 00713, 01075, 01085, 01200, 01334, 01409, 01567, 01611
Sky+ Skymaster Skymax	01175 00713, 01075, 01085, 01200, 01334, 01409, 01567, 01611 00200
Sky+ Skymaster Skymax Skyplus	01175 00713, 01075, 01085, 01200, 01334, 01409, 01567, 01611 00200 01232, 01334, 01412
Sky+ Skymaster Skymax Skyplus SkySat	01175 00713, 01075, 01085, 01200, 01334, 01409, 01567, 01611 00200 01232, 01334, 01412 00713
Sky+ Skymaster Skymax Skyplus SkySat SkyVision	01175 00713, 01075, 01085, 01200, 01334, 01409, 01567, 01611 00200 01232, 01334, 01412 00713 01334
Sky+ Skymaster Skymax Skyplus SkySat Skyvision SL	01175 00713, 01075, 01085, 01200, 01334, 01409, 01567, 01611 00200 01232, 01334, 01412 00713
Sky+ Skymaster Skymax Skyplus SkySat SkyVision	01175 00713, 01075, 01085, 01200, 01334, 01409, 01567, 01611 00200 01232, 01334, 01412 00713 01334 00299, 01672 00713, 01200, 01409
Sky+ Skymaster Skymax Skyplus SkySat Skyvision SL	01175 00713, 01075, 01085, 01200, 01334, 01409, 01567, 01611 00200 01232, 01334, 01412 00713 01334 00299, 01672 00713, 01200, 01409 00713, 00882, 01101, 01113, 01232, 01404, 01413
Sky+ Skymaster Skymax Skyplus SkySat SkyVision SL SM Electronic Smart Sony	01175 00713, 01075, 01085, 01200, 01334, 01409, 01567, 01611 00200 01232, 01334, 01412 00713 01334 00299, 01672 00713, 01200, 01409 00713, 0082, 01101, 01113, 01232, 01639, 00455, 00847, 00853, 01524, 01558, 01640
Sky+ Skymaster Skymax Skyplus SkySat SkyVision SL SM Electronic Smart Sony Star	01175 00713, 01075, 01085, 01200, 01334, 01409, 01567, 01611 00200 01232, 01334, 01412 00713 01334 00299, 01672 00713, 01200, 01409 00713, 0082, 01101, 01113, 01232, 01404, 01413 00639, 01639, 00455, 00847, 00853, 01524, 01558, 01640 00887
Sky+ Skymaster Skymax Skyplus SkySat Skyvision SL SM Electronic Smart Sony Star Star Choice	01175 00713, 01075, 01085, 01200, 01334, 01409, 01567, 01611 00200 01232, 01334, 01412 00713 01334 00299, 01672 00713, 01200, 01409 00713, 0082, 01101, 01113, 01232, 01404, 01413 00639, 01639, 00455, 00847, 00853, 01524, 01558, 01640 00887 00869
Sky+ Skymaster Skymax Skyplus SkySat SkyVision SL SM Electronic Smart Sony Star Star Choice Star Trak	01175 00713, 01075, 01085, 01200, 01334, 01409, 01567, 01611 00200 01232, 01334, 01412 00713 01334 00299, 01672 00713, 01200, 01409 00713, 0082, 01101, 01113, 01232, 01404, 01413 00639, 01639, 00455, 00847, 00853, 01524, 01558, 01640 00887 00869 00772, 00869
Sky+ Skymaster Skymax Skyplus SkySat Skyvision SL SM Electronic Smart Sony Star Star Star Choice Star Trak Starland	01175 00713, 01075, 01085, 01200, 01334, 01409, 01567, 01611 00200 01232, 01334, 01412 00713 01334 00299, 01672 00713, 01200, 01409 00713, 0082, 01101, 01113, 01232, 01404, 01413 00639, 01639, 00455, 00847, 00853, 01524, 01558, 01640 00887 00869 00772, 00869 00713
Sky+ Skymaster Skymax Skyplus SkySat SkySat Skyvision SL SM Electronic Smart Sony Star Star Star Choice Star Trak Starland Starlite	01175 00713, 01075, 01085, 01200, 01334, 01409, 01567, 01611 00200 01232, 01334, 01412 00713 01334 00299, 01672 00713, 01200, 01409 00713, 0082, 01101, 01113, 01232, 01404, 01413 00639, 01639, 00455, 00847, 00853, 01524, 01558, 01640 00887 00869 00772, 00869 00773 00200
Sky+ Skymaster Skymax Skyplus SkySat SkyVision SL SM Electronic Smart Sony Star Star Star Choice Star Trak Starland	01175 00713, 01075, 01085, 01200, 01334, 01409, 01567, 01611 00200 01232, 01334, 01412 00713 01334 00299, 01672 00713, 01200, 01409 00713, 00882, 01101, 01113, 01232, 01404, 01413 00639, 01639, 00455, 00847, 00853, 01524, 01558, 01640 00887 00869 00772, 00869 00772, 00869 00773 00200 01847, 01848
Sky+ Skymaster Skymax Skyplus SkySat SkySat SkyVision SL SM Electronic Smart Sony Star Star Star Choice Star Trak Starland Starlite Stream Strong	01175 00713, 01075, 01085, 01200, 01334, 01409, 01567, 01611 00200 01232, 01334, 01412 00713 01334 00299, 01672 00713, 01200, 01409 00713, 00822, 01101, 01113, 01232, 01404, 01413 00639, 01639, 00455, 00847, 00863 00869 00772, 00869 00772, 00869 00713 00200 01847, 01848 00125, 00713, 00820, 00853, 00879, 01159, 01284, 01300, 01409, 01626
Sky+ Skymaster Skymax Skyplus SkySat SkyVsion SL SM Electronic Smart Sony Star Star Star Choice Star Trak Starloice Star Irak Starlite Starlite	01175 00713, 01075, 01085, 01200, 01334, 01409, 01567, 01611 00200 01232, 01334, 01412 00713 01334 00299, 01672 00713, 01200, 01409 00713, 00822, 01101, 01113, 01232, 01404, 01413 00639, 01639, 00455, 00847, 00869 00772, 00869 00772, 00869 00773 00869 00713 00200 01847, 01848 00125, 00713, 00820, 00853, 00879, 01159, 01284, 01300, 01409, 01626 00123
Sky+ Skymaster Skymax Skyplus SkySat SkySat SkyVision SL SM Electronic Smart Sony Star Star Star Choice Star Trak Starland Starlite Stream Strong	01175 00713, 01075, 01085, 01200, 01334, 01409, 01567, 01611 00200 01232, 01334, 01412 00713 01334 00299, 01672 00713, 01200, 01409 00713, 00822, 01101, 01113 00639, 01639, 00455, 00847, 00869 00772, 00869 00772, 00869 00773 00869 00773 00869 00773 00869 00773 00869 00713 00200 01847, 01848 00125, 00713, 00820, 00853, 00879, 01159, 01284, 01300, 01409, 01626
Sky+ Skymaster Skymax Skyplus SkySat SkySat SkySat SM Electronic Smart Sony Star Star Star Choice Star Choice Star Trak Starland Starlite Stream Strong Sunkai	01175 00713, 01075, 01085, 01200, 01334, 01409, 01567, 01611 00200 01232, 01334, 01412 00713 01334 00299, 01672 00713, 01200, 01409 00713, 01802, 01101, 01113, 01232, 01404, 01413 00639, 01639, 00455, 00847, 00869 00772, 00869 00772, 00869 00773 00869 00773 00869 00773, 00869 00713 00200 01847, 01848 00125, 00713, 00820, 00853, 00879, 01159, 01284, 01300, 01409, 01626 00123
Sky+ Skymaster Skymax Skyplus SkySat Skyvision SL SM Electronic Smart Sony Star Star Star Choice Star Trak Star Choice Star Trak Starland Starlite Stream Strong Sunkai Sunny Sunsat Sunstar	01175 00713, 01075, 01085, 01200, 01334, 01409, 01567, 01611 00200 01232, 01334, 01412 00713 01334 00299, 01672 00713, 01200, 01409 00713, 00802, 01101, 01113 00639, 01639, 00455, 00847, 00869 00772, 00869 00772, 00869 00772, 00869 00773 00869 00773 00869 00773 00869 00713 00200 01847, 01848 00125, 00713, 00820, 00853, 00879, 01159, 01284, 01300, 01409, 01626 00123 01300
Sky+ Skymaster Skymax Skyplus SkySat SkyVision SL SM Electronic Smart Sony Star Star Star Choice Star Trak Star Choice Star Trak Starlite Strand Starlite Stream Strong Sunkai Sunny Sunsat Sunstar Supernova	01175 00713, 01075, 01085, 01200, 01334, 01409, 01567, 01611 00200 01232, 01334, 01412 00713 01334 00299, 01672 00713, 01200, 01409 00713, 00882, 01101, 01113, 01232, 01404, 01413 00639, 01639, 00455, 00847, 00853, 01524, 01558, 01640 00887 00772, 00869 00772, 00869 00772, 00869 00773 00200 01847, 01848 00125, 00713, 00820, 00853, 00879, 01159, 01284, 01300, 01409, 01626 00123 01300 00713 00642 00887
Sky+ Skymaster Skymax Skyplus SkySat Skyvision SL SM Electronic Smart Sony Star Star Star Choice Star Trak Star Choice Star Trak Starland Starlite Stream Strong Sunkai Sunny Sunsat Sunstar	01175 00713, 01075, 01085, 01200, 01334, 01409, 01567, 01611 00200 01232, 01334, 01412 00713 01334 00299, 01672 00713, 01200, 01409 00713, 01200, 01409 00713, 00822, 01101, 01113, 01232, 01404, 01413 00639, 01639, 00455, 00847, 00869 00772, 00869 00713 00200 01847, 01848 00125, 00713, 00820, 00853, 00879, 01159, 01284, 01300, 01409, 01626 00123 01300 00713 00642

τI	T .	00455
T	Tantec	00455
	Tarbs	01225
	Tatung	00455
	TBoston	01659
	Teac Tecatel	01225, 01227, 01251, 01322
		01200 00262, 00455, 00863, 01099,
	TechniSat	01100, 01195, 01197, 01322
	Technomate	01283, 01610
	Technosonic	01672
	Technotrend	01429
	Techwood	01284, 01626
	Tele System	01251, 01409, 01611, 01801
	Electronic	01043
	TeleClub	01367
	Telefunken	00710
	Teleka	00262, 00442
		01099, 01100, 01251, 01334,
	Telestar	01610, 01626
	Telesystem	01801
	Televes	00455, 01214, 01300, 01334
	Televisa	00887
	Telewire	01232
	Tevion	00713, 01409, 01622, 01672
	_	00392, 00566, 00455, 00710, 00713, 00820, 00847, 00853,
	Thomson	01046, 01175, 01291, 01534,
		01543, 01662
	Thorn	00455
	Tiny	01672
	Tioko	00394
	Tivo	01142, 01442
	Tokai	00200
	Tonna	00455, 00713, 01611
	Topfield	01206, 01208, 01545, 01783 00749, 01749, 00790, 00819,
	Toshiba	00455, 01285, 01501, 01516, 01530
	TPS	00820, 01253, 01307
		00200, 00713, 00853, 01113,
	Triax	01227, 01251, 01291, 01296, 01626
	Trio	01075
	TT-micro	01429
	Turnsat	00713
	Twinner	00713, 01611
U	UEC	00879, 01162, 01333, 01356
	UltimateTV	01392, 01640
	Uniden	00724, 00722
	Unisat	00200
	United	01251
	Universum	00173, 00299, 01087, 01099,
		01251 01535
	US Digital USDTV	01535
	00010	01333

	v	Marianat	00170
	V	Variosat	00173
		Ventana	00200
		Vestel	01251
1000		VH Sat	00299
1322		Viasat ViewSat	01682
1099.			01232
1322		Visionic VisionNet	00125, 01283
			01557 00142, 00710, 00713, 01413,
		Visiosat	01457, 01718
		Viva	00856
		Vivid	01162
1801		Voom	00869
		VTech	00818
	W	Wavelength	01232, 01413
		Wewa	00455
		Wharfedale	01284
1334,		Winbox	01801
,		Wintel	00299
		Wisi	00173, 00299, 00455
1334		Worldsat	00123, 00710, 01214, 01251, 01543
	X	Xcom	00123
	~	XMS	01075
1672		Xsat	00123, 00713, 00847, 01214,
0710, 0853,			01323
1534,		Xtreme	01300
	Y	Yakumo	01413
		Yamada	01718
		Yes	00887
	Z	Zehnder	00394, 00504, 00818, 01075, 01232, 01251, 01334, 01412, 01413
_		Zenith	00856, 01856
		Zeta Technology	00200
1783 0819, 1510		Zodiac	01801
1516,	Sa	atellite Rece	iver/
1113, 1296,		VR Combinat	tion
,	※ 1		
	A	@sat	01300
		Allvision	01412
		Amstrad	01175
		Atsat	01300
1356	B	B@ytronic	01412
		British Sky Broadcasting	01175
_		BskyB	01175, 01662
		Bush	01645
1000	C	Canal Satellite	01339
1099,	-	Comag	01412
	D	Digifusion	01645
	_	DigiQuest	01300
		Digiturk	01076

		01077 00002 00000 01140
	DirecTV	01377, 00392, 00639, 01142, 01076, 00099, 01392, 01442, 01640
	Dish Network System	01505, 00775
	Dishpro	01505, 00775
	DMT	01075
	Dream Multimedia	01237
E	Echostar	01505, 00775, 00610
	Expressvu	00775
F	Foxtel	01356
G	GbSAT	01214
	Gecco	01412
	Globo	01412
H	HDT	01159
	Hirschmann	01412
	Homecast	01680
	Hughes Network	01142, 01442
	Systems Humax	01176, 01427, 01675
	Huth	01075
	Hyundai	01075, 01159
к	Kaon	01300
	Kathrein	00249, 00658, 01221, 01561
11	IG	01075
м	Maximum	01334
IVI	Mediacom	01206
	Medion	01412
	Microstar	01075
	Morgan's	01412
	Motorola	00869
	MTEC	01214
	Multichoice	01333, 01559, 01560
	MySky	01693, 01848, 01850
N	NEOTION	01334
11	Nokia	01023
0	Opentel	01023
	Orbis	01412
P	Pace	01175, 01356, 01423, 01850
- F	Panasonic	01304
	Philips	01142, 00099, 01442
	Pilotime	01339
	Proscan	00392
R	Radix	01317
n	RCA	01392
	Rebox	01214
S	Sagem	01253, 01307
3	Samsung	01206, 01442, 01570, 01609
	Sat Control	
	Schneider	01300
	Schwaiger	01206
	Schwalger Sedea Electronique	01075, 01412
		01206
	Serd SKY	01412
	OVI	01175, 01693, 01848, 01850

	SKY Italia	01848
	Sky XL	01412
	Skymaster	01075
	Skyplus	01412
	Sony	00639, 01640
	Star Choice	00869
	Strong	01300
	Sunny	01300
Т	TechniSat	01195, 01197
	Thomson	01175, 01534, 01662
	Topfield	01206, 01545, 01783
	TPS	01253, 01307
Х	Xtreme	01300
Ζ	Zehnder	01075, 01412
*3	2	
H	Hughes Network Systems	20739
Ρ	Philips	20739
S	Samsung	20739
Т	elevision	

-		
	elevision	
1	888	10264
Α	A-Mark	10047, 10054, 10009
	A.R. Systems	10037, 10352, 10374, 10455, 10556
	Accent	10009, 10037
	Accuscan	10047
	Accuscreen	10001
	Acoustic Research	11269
	Action	10030, 10650
	Acura	10009
	Addison	10092, 10108, 10653
	ADL	11217
	Admiral	10047, 10054, 10017, 10051, 10093, 10463, 10180, 10163, 10264, 10418
	Advent	10761, 10783, 10815, 10817, 10842, 10876, 11933
	Adventuri	10000
	Adyson	10217
	AEG	11163, 11556
	Agashi	10217, 10264
	Agna	10150
	Aiko	10092, 10009, 10035, 10037, 10217, 10264, 10361, 10371, 10433
	Aim	10706, 10037, 10455, 10805
	Aiwa	10264, 10701, 11904, 11911
	Akai	10000, 10060, 10812, 10702, 10178, 10030, 10145, 10602, 10606, 10631, 10648, 10672, 10714, 10715, 11207, 11537, 11675, 11676, 11903, 10556, 10548, 10480, 10433, 10371, 10361, 10264, 10218, 10217, 10208, 10163, 10037, 10035, 10009

Akashi	10009, 10860
Akiba	10037, 10218, 10455
Akira	10418
Akito	10037
Akura	10171, 10009, 10037, 10163, 10218, 10264, 10668, 10714, 11037, 11498, 11556, 11982
Alaron	10170
Alba	10009, 10036, 10037, 10073, 10163, 10218, 10352, 10370, 10371, 10418, 10443, 10487, 10668, 10714, 11037
Albatron	10700, 10843
Alfide	10672
All-Tel	10865, 11269
Alleron	10030, 10170
Allorgan	10217
Allstar	10037
Ambassador	10150
America Action	10180
American High	10000, 10060
Amplivision	10217, 10370
Amstrad	10000, 10171, 10009, 10011, 10037, 10163, 10218, 10264, 10362, 10371, 10433, 10648, 11037, 11982
Amtron	10000, 10180
Anam	10250, 10180, 10009, 10037, 10700, 10861
Anam National	10250, 10037, 10650
Andersson	11149, 11163
Anglo	10009, 10264
Anhua	10051
Anitech	10009, 10037, 10264
Ansonic	10009, 10037, 10163, 10370, 10374, 10668 10451, 10093, 10180, 10060,
AOC	10178, 10030, 10092, 10009, 10108
Aolinpike	10264
Apex Digital	10156, 10748, 10879, 10765, 10767, 11217, 11943
AR	10352, 10556
Arc En Ciel	10109
Arcam	10217
Ardem	10037, 10714
Aristocrat	10163
Aristona	10037, 10556
ART	11037
Arthur Martin	10163
ASA	10070
Asberg	10037
Asora	10009
Astra	10037
Asuka	10217, 10218, 10264
ATD	10698
Atlantic	10001, 10037

Atori	10009			
Auchan	10163			
Audinac	10180			
Audiosonic	10009, 10218, 10486,	10037, 10264, 10714,	10109, 10370, 10715,	10217, 10374, 10820
Audioton		10264,		
Audiovox	10451, 10802, 11952	10180, 10875,	10092, 11937,	10623, 11951,
Audioworld	10698			
Aumark	10060			
Autovox	10217			
Aventura	10171			
AVP	10000			
Awa	10451, 10108, 10606	10009, 10217,	10011, 10264,	10036, 10374,
Axion	11937,	11958		
Axxent	10009			
Baier	10876			
Baihe	10009,			
Baile		10009,		
Baird	10037,	10073, 10343,	10109,	10208,
Bang & Olufsen	10565	10343,	11130	
Baohuashi	10264			
Baosheng	10009,	10817		
Barco	10163,			
Basic Line		10037, 10374, 11037,	10163, 10455, 11163	10217, 10556,
Bastide	10217	11007,	11100	
Bauer	10805			
Baur	10512	10195,	10361,	10455,
Baysonic	10180			
Bazin	10217			
Beaumark		10178,		40000
Beijing	10812, 10226, 10817,	10001, 10264, 10821	10009, 10374,	10208, 10661,
Beko	10037, 10486, 10808,	10195, 10606, 11037	10370, 10714,	10418, 10715,
Belcor	10030			
Bell & Howell	10054,	10017,	10154,	10093
Belson	10698,	11191		
Belstar	11037			
BenQ	11032,	11756		
Beon	10037,	10163,	10218,	10418
Berthen	10668			
Best	10370			
Bestar		10370,	10374	
Bestar-Daewoo	10374			
Binatone	10217	10000	10004	11007
Black Diamond	10614, 11163,	10820, 11909	10821,	11037,

Blackway	10218
Blaupunkt	10036, 10170, 10195, 10200, 10327, 10455
	10037, 10218, 10455, 10487,
Blue Sky	10037, 10218, 10455, 10487, 10499, 10556, 10668, 10714, 10715, 11037, 11191, 11363
Boots	10009, 10217
BPI	10037, 10208
Bradford	10180
	10109, 10287, 10335, 10560,
Brandt	10625, 10714
Brinkmann	10037, 10418, 10486, 10668
Brionvega	10037, 10362
Britannia	10217
Brockwood	10178, 10030
Broksonic	10236, 10463, 10180, 11911, 11938
Brother	10264
BSR	10163
BTC	10218
	11900, 11556, 11037, 10778, 10714, 10698, 10668, 10661, 10614, 10556, 10487, 10374, 10371, 10361, 10335, 10264, 10218, 10217, 10208, 10163, 10037, 10036, 10009
Bush	10614, 10556, 10487, 10374,
DUSII	10371, 10361, 10335, 10264,
	10218, 10217, 10208, 10163, 10037, 10036, 10009
Caihong	10009, 10817
Cailing	10748
Candle	10030
Canton	10218
Capehart	10017, 10178, 10030, 10092, 10036
Capetronic	10030
Capsonic	10264
Carad	10610, 10668, 11037
Carena	10037, 10455
Carnivale	10030
Carrefour	10036, 10037, 10070
Carver	10054, 10170
Cascade	10009, 10037
Casio	10037
Cathay	10037, 10218
CCE	10037, 10217
Celebrity	10000
Celera	10765
Celestial	10767, 10819, 10820, 10821
Centrex	10780
Centrum	11037
Centurion	10037
CGE	10074, 10163, 10370, 10418
Changcheng	10051, 10001, 10009, 10264, 10374, 10661, 10817
Changfei	10009, 10374, 10817
Changfeng	10264, 10817
Changhai	10009, 10817

	10156, 10765, 10009, 10264, 10508, 10767, 10783, 10817, 10819, 10820, 10821, 11008,
Changhong	10819, 10820, 10821, 11008,
Chanadu	11156
Chengdu Ching Tai	10009, 10817 10092, 10009
Ũ	10000 10180 10092 10009
Chun Yun	10700, 10843
Chunfeng	10009, 10264
Chung Hsin	10180, 10053, 10036, 10108
Chunsun	10009, 10817
Cimline	10009, 10218
Cinema	10672
Cineral	10451, 10092
Cinex	10648, 11556
Citek	10047
Citizen	10054, 10000, 10451, 10463, 10180, 10060, 10030, 10171
onizon	10180, 10060, 10030, 10171, 10092, 10001, 10035
City	10009
Clarion	10180
Clarivox	10037, 10070, 10418
Classic	10030, 10092, 10499
Clatronic	10009, 10037, 10217, 10218, 10264, 10370, 10371, 10714
Clayton	11037
CMS Hightec	10217
Colortyme	10047, 10054, 10017, 10060,
,	10178, 10030
Commercial Solutions	11447, 10047
Concorde	10009
Condor	10009, 10037, 10264, 10370, 10418
Conia	10820, 10821, 11498
Conic	10178
Conrac	10808
Conrowa	10156, 10145, 10009, 10264,
Contec	10698, 11156, 11170
Continental Edison	10180, 10009, 10036, 10037 10109, 10287, 10487
Cosmel	10009, 10037
Craig	
	10180, 10171 10054, 10000, 10180, 10030,
Crosley	10171, 10074, 10163, 10370
	10093, 10180, 10053, 10009,
Crown	10037, 10208, 10370, 10418, 10486, 10487, 10606, 10672, 10712, 10714, 10715, 11037
0	
Crown Mustang	10672
CS Electronics	10218
CTX	11756
	10047, 10054, 10154, 10000, 10051, 10451, 10093, 10180, 10060, 10702, 10178, 10030, 10145, 10166, 10037, 10035, 11147, 11347
Curtis Mathes	10060, 10702, 10178, 10030,
	10145, 10166, 10037, 10035, 11147, 11347
CXC	10180
Cybertron	10218
Cytronix	11298
D-Vision	10037, 10556, 11982

D

Daewoo	10154, 10451, 10180, 10178, 10030, 10092, 11661, 10634, 10661, 10672, 10700, 10860, 10865, 10876, 10880, 11755, 11756, 11909, 10623, 10556, 10499, 10374, 10264, 10218, 10217, 10170, 10109, 1108, 10037, 10036, 10009
Dainichi	10218
Dansai	10009, 10035, 10036, 10037, 10208, 10217
Dantax	10370, 10486, 10714, 10715
Datsura	10208
Dawa	10009, 10037
Daytek	10672, 11207
Dayton	10092, 10009, 11207
Daytron	10180, 10178, 10030, 10092, 10009, 10036, 10037, 10374
Dayu	10374, 10661
De Graaf	10163, 10208, 10548
Decca	10037, 10217
Degraff	10163, 10208
Deitron	10374
Dell	11080, 11178
Denko	10264
Denon	10145, 10511
Denver	10037, 10587
Desmet	10009, 10037
Diamant	10037
Diamond	10706, 10009, 10371, 10672, 10698, 10820, 10860
Digatron	10037
Digiline	10037, 10668
Digital Life	10872
Digitex	10820
Digitor	10037
Digix Media	10880
Dixi	10009, 10037, 10217
DL	10587, 10780, 10872
Domeos	10668
Domland	10394
Dongda	10009
Donghai	10009
Dream Vision	11164, 11704
DSE	10698, 10820, 11556
DTS	10009
Dual	10037, 10217, 10343, 10352, 10394, 11037, 11137
Dual Tec	10217
Dumont	10017, 10180, 10178, 10070, 10217
Durabrand	10463, 10180, 10178, 10171, 11034, 11463
Dux	10037
Dwin	10093
Dynatech	10217
Dynatron	10037

E	Easy Living	11248
	Eaton	10060
	Ecco	10773
	ECE	10037
	Edison-Minerva	10487
	Elbe	10037, 10217, 10218, 10362, 10610
	Elcit	10163
	Electroband	10000
	Electrograph	11755
	Electrohome	10154, 10000, 10463, 10150, 10178, 10030, 10073
	Elekta	10009, 10264
	Elfunk	11037, 11208
	ELG	10037
	Elin	10009, 10037, 10361, 10548
	Elite	10037, 10218
	Elta	10009, 10264
	Emerald	10178
	Emerson	10047, 10017, 10154, 10451, 10236, 10463, 10180, 10150, 10178, 10171, 11944, 10151, 11909, 10714, 10668, 10623, 10486, 10036, 10371, 10370, 10361, 10037, 10195, 10170, 10070, 10073
	Envision	10030, 10813
	Enzer	10860
	Erae	11371
	Erres	10037
	ESA	10812, 10171, 11944
	ESC	10037, 10217
	Ether	10030, 10009
	Etron	10001, 10009, 10163, 10820
	Eurofeel	10217, 10264
	Euroman	10037, 10217, 10264, 10370
	Europa	10037
	Europhon	10037, 10109, 10217
	Evesham Technology	11248
	Evolution	11756
	Expert	10163
	Exquisit	10037
F	Feilang	10009
	Feilu	10009, 10817
	Feiyan	10264
	Feiyue	10009, 10817
	Fenner	10009, 10374
	Fer0	10335
	Ferguson	10053, 10037, 10073, 10109, 10195, 10287, 10335, 10343, 10443, 10548, 10560, 10625, 11037
	Fidelity	10171, 10037, 10163, 10217, 10264, 10361, 10371, 10512
	Filsai	10217
	Finlandia	10163, 10208, 10346, 10361, 10548

	Fisher	10037,	10070,	10163,	10217,
	Finlux	10346, 10714.	10480, 10715.	10556, 10808,	11556
	Firstar	10236,		,	
		10009,	10037,	10208,	10217,
	Firstline	10361,	10374,	10556, 11037,	10668,
		11363,	11371	11037,	IIIJI,
	F : 1			10154,	
	Fisher	10036, 10370	10208,	10217,	10361,
	Flint		10218,	10264,	10455,
	Force	11149			
	Formenti	10037,	10163		
	Fortress	10093			
	Fraba	10037,	10370		
	Friac		10037,	10370,	10499,
	Frontech	10610	10162	10217	10264
	Fujimaro	10009,		10217,	10204
	,			10352	10683,
	Fujitsu	10809,		10002,	10000,
	Fujitsu General	10009,	10217,	10683	
	Fujitsu Siemens			11163,	
	Funai		10180, 11271,	10171, 11904	10264,
	Furi		10264,		
	Furichi	10860			
	Futronic	10264,	10860		
	Futuretech	10180			
G	Galaxi	10037			
	Galaxis	10037,	10370		
	Ganxin	10817			
	Gateway	11755,	11756		
	GBC			10218,	
	GE	10051	10451	11454, 10093, 10020	10180
	UL	11922,	11917,	10030, 11347,	11147,
	050	10625,	10560,	10335,	10035
	GEC			10217,	10361
	Geloso		10163,	10374	
	Gemini	10047	10207		
	General General Technic	10109, 10009	10287		
	General rechnic	10009			
	Conosis	10000	10027		
	Genesis	10009,		10162	10210
	Genexxa	10009,	10037,	10163, 10880.	
	Genexxa Gericom	10009, 10808, 11298	10037,	10163, 10880,	
	Genexxa Gericom Gevalt	10009, 10808, 11298 11371	10037, 10865,		
	Genexxa Gericom Gevalt Giant	10009, 10808, 11298 11371 10009,	10037, 10865, 10217	10880,	
	Genexxa Gericom Gevalt Giant Gibralter	10009, 10808, 11298 11371 10009, 10017,	10037, 10865, 10217 10000,	10880,	
	Genexxa Gericom Gevalt Giant Gibralter Go Video	10009, 10808, 11298 11371 10009, 10017, 10060,	10037, 10865, 10217 10000,	10880,	
	Genexxa Gericom Gevalt Giant Gibralter Go Video Go Vision	10009, 10808, 11298 11371 10009, 10017, 10060, 11937	10037, 10865, 10217 10000,	10880,	
	Genexxa Gericom Gevalt Giant Gibralter Go Video	10009, 10808, 11298 11371 10009, 10017, 10060, 11937 10668	10037, 10865, 10217 10000, 10886	10880,	11217,
	Genexxa Gericom Gevalt Giant Gibralter Go Video Go Vision Goldfunk	10009, 10808, 11298 11371 10009, 10017, 10060, 11937 10668	10037, 10865, 10217 10000, 10886	10880,	11217,
	Genexxa Gericom Gevalt Giant Gibralter Go Video Go Vision	10009, 10808, 11298 11371 10009, 10017, 10060, 11937 10668	10037, 10865, 10217 10000, 10886	10880,	11217,
	Genexxa Gericom Gevalt Giant Gibralter Go Video Go Vision Goldfunk	10009, 10808, 11298 11371 10009, 10017, 10060, 11937 10668	10037, 10865, 10217 10000, 10886	10880,	

	Gooding	10487
	Goodmans	10000, 11909, 11900, 11163, 11037, 10880, 10808, 10714, 10688, 10661, 10634, 10625, 10587, 10560, 10556, 10499, 10487, 10480, 10374, 10371, 10343, 10335, 10264, 10218, 10217, 10037, 10036, 10035, 10011, 10009
	Gorenje	10370
	GPM	10218
	Gradiente	10053, 10037, 10170
	Graetz	10163, 10361, 10371, 10487,
	Gran Prix	10714, 11163 10648
	Granada	10036, 10037, 10108, 10163, 10208, 10217, 10226, 10343, 10548, 10560
	Grandin	10009, 10037, 10163, 10218, 10374, 10455, 10610, 10668, 10714, 10715, 10865, 10880, 11037, 11191
	Gronic	10217
	Grundig	10706, 10009, 10036, 10037, 10070, 10163, 10195, 10443, 10487, 10556, 10587, 10672, 10683, 11371
	Grundy	10180, 10195
	Grunkel	11163
	Grunpy	10180
H	H & B	10808
	Haaz	10706
	Haier	11034, 10037, 10508, 10587, 10698, 11017
	Haihong	10009
	Haiyan	10264, 10817
	Halifax	10217, 10264
	Hallmark	10236, 10180, 10178
	Hampton	10217
	Hanimex	10218
	Hankook Hanseatic	10180, 10178, 10030 10009, 10037, 10217, 10361, 10370, 10394, 10499, 10556, 10634, 10661, 10714, 10808
	Hantarex	10009, 10037, 10865
	Hantor	10037
	Harley Davidson	10000, 10180, 10060, 10178, 10030, 11904
	Harman/Kardon	10054
	Harsper	10865
	Harvard	10180
	Harwa	10773, 11196, 11269
1	Harwood	10009, 10037, 10487
	Hauppauge	10037
	Havermy	10093
	HCM	10009, 10037, 10217, 10218, 10264, 10418
	Heathkit	10017
	Helios	10865
	Hello Kitty	10451

Hema	10009, 10217
Hewlett Packard	11494, 11502
Hifivox	10109
Highline	10037, 10264
Hikona	10218
Hikone	10218
Hinari	10009, 10036, 10037, 10163, 10208, 10218, 10264, 10352, 10443
Hisawa	10218, 10455, 10610, 10714
Hisense	10156, 10748, 10145, 10009, 10208, 10508, 10556, 10780, 10821, 10860, 11022, 11156, 11170, 11208, 11363
Hitachi	10047, 10054, 10017, 10000, 11256, 10156, 10051, 10150, 10178, 10030, 11145, 10145, 10092, 10744, 10877, 10634, 1037, 11137, 11149, 11156, 11170, 11225, 11576, 11904, 11960, 10578, 10548, 10508, 10499, 10481, 10480, 10343, 10217, 10163, 10109, 10108, 10037, 10036, 10035, 10009
Hitachi Fujian	10150, 10108, 10860
Hitec	10698
Hitsu	10009, 10218, 10455, 10610
Hoeher	10714, 10865, 11163, 11556
Home Electronics	10606
Hongmei	10093, 10009, 10264, 10817
Hongyan	10264, 10817
Hornyphon	10037
Hoshai	10218, 10455
HP	11494, 11502
Hua Tun	10009
Huafa	10145, 10009
Huanghaimei	10009
Huanghe	10009, 10817
Huanglong	10009
Huangshan	10009, 10264, 10817
Huanyu	10217, 10264, 10374, 10817
Huagiang	10264
Huari	10145, 10264
Hugoson	11217
Huodateji	10051
Hygashi	10217
Hyper	10009, 10217
Hypersonic	10361
Hypson	10037, 10217, 10264, 10455, 10486, 10556, 10668, 10714, 10715, 11037
Hyundai	10849, 10860, 10865, 10876, 11556
Iberia	10037
ICE	10037, 10217, 10218, 10264, 10371
ICeS	10218
liyama	10877, 11217

Ima	10236, 10180, 10178
Imperial	10037, 10074, 10370, 10418
Imperial Crown	10001, 10009, 10264, 10374, 10661
Indiana	10037
Infinity	10054
InFocus	11164
Ingelen	10163, 10487, 10610, 10714
Ingersol	10009
Inno Hit	10009, 10217, 10218, 11163
Innova	10037
Innowert	10865, 11298
Inotech	10773, 10820
Insignia	10171, 11517
Inteq	10017, 10145
Interbuy	10009, 10037, 10264
Interfunk	10037, 10109, 10163, 10200, 10327, 10361, 10512
Internal	10037, 11909
Intervision	10009, 10037, 10217, 10218 10264, 10394, 10455, 10486 10487
Irradio	10009, 10037, 10218, 10371
Isukai	10037, 10218, 10455
ITC	10217
ITS	10037, 10218, 10264, 10371
ITT	10163, 10208, 10346, 10361 10480, 10548, 10610
ITT Nokia	10070, 10163, 10195, 10208 10346, 10361, 10480, 10548 10606, 10610
ITV	10037, 10264, 10374
IX	10877
JBL	10054
JCB	10000
JDV	11982
Jean	10156, 10051, 10236, 10092 10009, 10036
JEC	10035
Jensen	10761, 10815, 10817, 11933
Jiahua Jial iCai	10051 10009, 10264
JIALICAI	10009, 10264
	10030
Jinfeng	10051, 10208, 10226, 10817
Jinque Jinta	10009, 10264, 10817
omta	
Jinxing	10054, 10156, 10145, 10009, 10037, 10264, 10556, 10698, 10817, 10821, 11011
JMB	10443, 10499, 10556, 10634
JNC	10876
Jocel	10712
Johnson	10455
Jubilee	10556
Juhua	10264, 10817
Jutan	10030

		10054, 10093, 10463, 10053, 100200, 1002000, 1002000, 1002000, 10020000000000
	JVC	10030, 10070, 10036, 10218, 10371, 10418, 10508, 10606, 10650, 10653, 10683, 10731,
		10650, 10653, 10683, 10731, 11253, 11923
К	Kaige	10009, 10264, 10817
	Kaisui	10009, 10037, 10217, 10218,
		10455
	Kambrook	10217
	Kamp	10017, 10180, 10217 10001, 10009, 10264, 10374,
	Kangli	10661, 10817
	Kangyi	10009, 10264
	Kapsch	10163, 10361
	Karcher	10264, 10370, 10606, 10610, 10714, 10778, 11556
	Kathrein	10556
	Kawa	10371
	Kawasho	10030
	KB Aristocrat	10163
	KDS	11498
	KEC	10180, 10060
	Kendo	10037, 10362, 10370, 10610, 10648, 11037
	Kennedy	10163
	Kennex	10668, 11037
	Kenwood	10180, 10030
	Khind	10706
	KIC	10217
	Kiota	10001, 10371, 10455
	Kioto	10706, 10556
	Kiton	10037, 10668
	KLH	10156, 10180, 10765, 10767, 11962
	KLL	10037
	Kloss	10030
	Kneissel	10037, 10362, 10370, 10374,
		10499, 10556, 10610 10180, 10150, 10053, 10036,
	Kolin	10108, 11331
	Kolster	10037, 10218
	Kongque	10009, 10264, 10817
	Konichi	10009
	Konig	10037
	Konka	10180, 10037, 10218, 10371, 10418, 10587, 10641, 10714, 10817, 11084
	Kontakt	10487
	Korpel	10037
	Korting	10370
	Kosmos	10037
	Koyoda	10009
	Kreisen	10876
	KTV	10463, 10180, 10030, 10217
	Kuaile	10009, 10264
	Kulun	10009
	Kunlun	10051, 10208, 10226, 10264, 10374, 10661, 10817

	Kyoshu	10418
	Kyoto	10163, 10217
L	L&S Electronic	10714, 10808, 10865
	Lark	10154
	LaSAT	10486
	Lavis	11037
	Leader	10009
	Lecson	10037
	Legend	10009
	Lenco	10037, 10374, 10587
	Lenoir	10009
	Lexsor	11196
	Leyco	10037, 10264
	LG	10054, 11265, 10060, 10178, 10030, 11758, 11637, 11191, 11178, 10856, 10715, 10714, 10700, 10698, 10556, 10370, 10361, 10217, 10163, 10109, 10108, 10037, 10009, 10001
	Liesenk & Tter	10037
	Liesenkotter	10037, 10327
	Lifetec	10009, 10037, 10218, 10374, 10668, 10683, 10714, 11037, 11137
	Lihua	10817
	Lloyd's	10236, 10180, 10030, 10001, 10009, 11904
	Local India TV	10009, 10208, 10602
	Local Malaysia TV	10698
	Lodos	11037
	Loewe	10037, 10370, 10512, 10633, 10790
	Logik	10236, 10180, 10060, 10001, 10009, 10011, 10371, 10698, 10773, 10880, 11037, 11217
	Logix	10668
	Longjiang	10264, 10817
	Luker	11982
	Luma	10009, 10163, 10362, 10374, 11037
	Lumatron	10037, 10073, 10163, 10217, 10264, 10361, 10556
	Lux May	10009, 10037
	Luxor	10163, 10208, 10217, 10346, 10361, 10480, 10548, 10631, 11037, 11163
	LXI	10047, 10054, 10017, 10154, 10000, 10156, 10051, 10093, 10060, 10053, 10178, 10030, 10171, 10166, 10037, 10036, 10035, 10001, 10208
Μ	M Electronic	10009, 10037, 10109, 10163, 10195, 10217, 10287, 10343, 10346, 10374, 10480, 10512, 10634, 10661, 10714
	Madison	10037
	MAG	11498
	Magnadyne	10054, 10163
	Magnafon	10073
	Magnasonic	10054, 10000, 10156, 10093, 10030, 10092, 10109

Magnavox	10047, 11454, 10054, 10154, 10000, 10250, 10051, 10180, 10060, 10030, 10171, 10092, 10706, 11944, 11904, 11755, 11254, 10802, 10780, 10011, 10035, 10037, 10036
Magnum	10037, 10648, 10714, 10715
Majestic	10017
Mandor	10264
Manesth	10035, 10037, 10217, 10264
Manhattan	10037, 10668, 10778, 10876, 11037, 11267
Marantz	11454, 10054, 10030, 10037, 10556, 10704, 10855
Mark	10009, 10037, 10217, 10374, 10714, 10715
Master's	10499
Mastro	10053, 10706, 10698, 10780
Masuda	10009, 10037, 10217, 10218, 10264, 10371
Matsui	11037, 10744, 10714, 10556, 10487, 10455, 10443, 10433, 10371, 10352, 10335, 10217, 10208, 10195, 10163, 10037, 10036, 10035, 10011, 10009
Matsushita	10250, 10051, 10650
Maxdorf	10773
Maxent	11755, 11756
Maxim	11556, 11982
MCE	10009
Meck	10698
Mediator	10037, 10556
Medion	10037, 10512, 10556, 10668, 10698, 10714, 10808, 10880, 11037, 11137, 11248, 11900
Megapower	10700
Megas	10610
Megatron	10047, 10178, 10145, 10009
MEI	11037
Meile	10264, 10817
Memorex	10154, 10250, 10463, 10180, 10150, 10060, 10178, 10030, 10009, 10035, 10037, 10195, 10877, 11037, 11911
Memphis	10009
Mercury	10060, 10001, 10009, 10037
Mermaid	10037
Metronic	10625
Metz	10037, 10195, 10367, 10388, 10447, 10587, 10668, 10746, 11163
MGA	10150, 10178, 10030, 10218, 10374
MGN Technology	10178
Micro Genius	10150
Micromaxx	10037, 10668, 10714, 10808, 11037
Microstar	10808
MicroTEK	10820, 10860
Midland	10047, 10017, 10051
Mikomi	11037, 11149

	Minato	10037, 10556	Ν
	Minerva	10070, 10108, 10195, 10487	Ν
	Minoka	10037	Ν
	Mirror	11900	N
	Mitsubishi	10154, 10250, 10093, 10236, 10180, 11250, 10150, 10178, 10030, 11917, 11037, 10836, 10817, 10556, 10512, 10195, 10108, 10037, 10036, 10011	N N
Ì	Mivar	10217	Ν
ľ	Monaco	10009	N
Ì	Monivision	10700, 10843	N
ľ	Morgan's	10037	N
Ì	Motorola	10054, 10051, 10093, 10150	N
ĺ	MTC	10180, 10060, 10030, 10092, 10011, 10370, 10512	Ν
	MTlogic	10714 0	0
ļ	Mudan	10051, 10009, 10208, 10226, 10264, 10817	0
	Multitec	10037, 10486, 10668, 11037, 11556	0
	Multitech	10180, 10009, 10037, 10217, 10264, 10370, 10486	0
	Murphy	10163	0
	Musikland	10218	0
	Mx Onda	11498	0
	Myryad	10556	
	NAD	10156, 10178, 10166, 10037, 10361, 10866, 11156	0
ł	Naiko	10037, 10606, 11982	0
ļ	Nakimura	10037, 10374	0
ì	Nanbao	10009, 10264	0
ļ	Nansheng	10264, 10817	0
ł	Narita	11982	0
ļ	NAT	10226	
Ì	National	10051, 10208, 10226, 10508 10047, 10154, 10156, 10051, 10053, 10178, 10030, 11704	0
	NEC	10053, 10178, 10030, 11704, 11270, 11170, 10817, 10704, 10661, 10653, 10508, 10499,	0
		10455, 10374, 10264, 10217, 10170, 10036, 10011, 10009	0
ľ	Neckermann	10037, 10200, 10327, 10370,	
j	NEI	10418, 10556	0
1	Neovia	10037, 10163, 10371	0
ì	Netsat	10865, 10876, 11371 10037	0
1	NetTV	11755	0
Ì	Neufunk	10009, 10037, 10218, 10556,	0
		10610, 10714 10009, 10037, 10217, 10343, P	Pa
j	New Tech	10556	Pa
	New World	10218	
ì	Newave	10093, 10178, 10092, 10009	Pa
	Nikkai	10009, 10035, 10036, 10037, 10163, 10217, 10218, 10264	
ľ	Nikkei	10714	Pa
	Nikko	10178, 10030, 10092	P
	Nikkodo	10178, 10030, 10092	Pi
			Fi

Ν Ν

Nishi	10030
Nobliko	10070
Nogamatic	10109
Nokia	10163, 10208, 10346, 10361, 10374, 10480, 10548, 10606,
Tonia	10610, 10631
Norcent	10748, 10824
Nordic	10217
Nordmende	10037, 10109, 10195, 10287, 10343, 10560, 10714
Normerel	10037
Novatronic	10037, 10374
NTC	10092
Nu-Tec	10455, 10698, 10820
Nyon	10000
Oceanic	10163, 10208, 10361, 10548
Odeon	10264
Okano	10009, 10037, 10264, 10370
Olevia	11144, 11240, 11331, 11610
Omega	10264
Omni	10748, 10698, 10780, 10872
Onida	10053, 11253
Onimax	10714
Onwa	10180, 10218, 10371, 10433 10602
Opera	10037
Optimus	10154, 10250, 10093, 10180 10150, 10178, 10030, 10166 10650
Optoma	10887
Optonica	10093
Orbit	10037
Orcom	11504
Orion	10017, 10236, 10463, 10180 10178, 11463, 10011, 10037 10264, 10443, 10556, 10714 10880, 11196, 11911
Orline	10037, 10218
Ormond	10668, 11037
Osaki	10037, 10217, 10218, 10264 10374, 10556
Osio	10037
Oso	10218
Osume	10036, 10037, 10218
Otic	11498
Otto Versand	10093, 10036, 10037, 10109 10195, 10217, 10226, 10343 10361, 10512, 10556
Pace	10092
Pacific	10037, 10443, 10556, 10714 11037, 11137
Palladium	10037, 10163, 10200, 10217, 10327, 10370, 10418, 10556, 10714, 11137
Palsonic	10001, 10037, 10217, 10218, 10264, 10418, 10698, 10773, 10778, 11196, 11269, 11904
Panama	10009, 10037, 10217, 10264

Panasonic	10054, 10000, 10156, 10250, 10051, 10236, 10030, 11947, 11946, 11941, 11480, 11310, 11291, 11271, 10853, 10650, 10548, 10508, 10367, 10361, 10226, 10163, 10108, 10037, 10035
Panavision	10037
Panda	10051, 10706, 10009, 10208, 10226, 10264, 10508, 10698, 10780, 10817, 10821
Pathe Cinema	10163
Pathe Marconi	10109
Pausa	10009
Paxonic	10060, 10030
PCE	10156, 10060
Penney	10047, 10000, 10156, 10250, 10051, 10060, 10178, 10030, 10035, 10036, 10037, 10070, 10108, 11347
Perdio	10037, 10163
Perfekt	10037
Petters	11523
Philco	10054, 10451, 10463, 10180, 10178, 10030, 10145, 11661, 10037, 10074, 10163, 10370, 10418
Philharmonic	10217
Philips	11454, 10054, 10017, 10000, 10051, 10178, 10030, 10171, 10092, 11961, 11756, 11254, 10690, 10556, 10512, 10374, 10361, 10343, 10200, 10108, 10037, 10009
Phocus	10714
Phoenix	10037, 10163, 10370, 10486
Phonola	10037, 10556
Pilot	10051, 10060, 10178, 10030, 10706, 10011
Pioneer	10166, 10011, 10037, 10109, 10163, 10170, 10287, 10361, 10370, 10486, 10512, 10679, 10760, 10866, 11260
Pionier	10370, 10486, 11556
Plantron	10009, 10037, 10264
Playsonic	10037, 10217, 10714, 10715
Polaroid	10765, 10865, 11276, 11316, 11341, 11498, 11523
Рорру	10009
Portland	10451, 10092, 10374
Powerpoint	10037, 10487, 10698
Prandoni-Prince	10361
Precision	10236, 10180, 10217
Premier	10009, 10264
President	10860
Prima	10761, 10009, 10264, 10783, 10815, 10817, 11269, 11933
Princeton	10700
Prinston	11037
Prinz	10361
Prism	10250, 10051

Profex	10009, 10163, 10361
Profi	10009
Profilo	11556
Profitronic	10037
Proline	10037, 10073, 10625, 10634 11037
Proscan	11447, 10047, 11347, 11922
Prosco	10156
Prosonic	10037, 10217, 10370, 10371 10374, 10668, 10714
Protec	10009, 10037, 10217, 10264
Protech	10009, 10037, 10217, 10264 10418, 10486, 10668, 11037
Proton	10178, 10030, 10001, 10009
Proview	11498
ProVision	10037, 10556, 10714, 11037
Pulsar	10017, 10092
Pulser	10178, 10092
Pvision	10876, 11191
Руе	10037, 10374, 10556
Pymi	10009
Qingdao	10051, 10208, 10226, 10264 10817
Quadral	10051, 10218
Quartz	10150, 10178
Quasar	10250, 10051, 10009, 10035 10650, 10865
Quelle	10011, 10037, 10070, 10074 10109, 10195, 10200, 10327 10361, 10512, 10668, 11037
Ouesta	10036
Questar	10036
R-Line	10037
Rabbit	10047
Radialva	10163, 10218
Radiola	10037, 10217, 10556
Radiomarelli	10037
RadioShack	10047, 10154, 10180, 10150 10178, 10030, 10037, 11904
Radiotone	10009, 10037, 10264, 10370 10418, 10648, 10668, 11037
Rank	10070
Rank Arena	10036, 10602
RBM	10070
RCA	11447, 10047, 11454, 10054 10000, 10051, 10093, 10176 10030, 10092, 11958, 11953 11948, 11922, 11917, 11547 11347, 11247, 11147, 11047 10679, 10625, 10560, 10090
Realistic	10047, 10154, 10180, 10150 10178, 10030
Recor	10037, 10418
Rectiligne	10037
Rediffusion	10036, 10163, 10346, 10361 10548
Redstar	10037
Reflex	10037, 10668, 11037
Relisys	10865, 10876, 10877, 11207 11298

R

Remotec	10250, 10093, 10145, 10171, 10037
Reoc	10714
Revox	10037
Rex	10163, 10264
RFT	10037, 10264
Rinex	10773
Roadstar	10009, 10037, 10218, 10264, 10418, 10668, 10714, 11037, 11900
Rolson	11371
Rover	10036, 10877
Rowa	10748, 10009, 10037, 10264, 10587, 10698, 10712, 10817
Royal Lux	10335, 10370
Runco	10017, 10060, 10030
Ruyi	10817
Saba	10250, 10109, 10163, 10287, 10335, 10343, 10361, 10498, 10548, 10560, 10625, 10714
Sagem	10455, 10610, 10618
Saige	10009, 10817
Saisho	10009, 10011, 10163, 10217, 10264
Saivod	10037, 10668, 10712, 11037, 11163, 11556, 11982
Sakai	10163
Sakyno	10455
Salora	10163, 10208, 10361, 10480, 10548, 10631
Salsa	10335
Sampo	10047, 10154, 10093, 10178, 10030, 10171, 10092, 10009, 10036, 10650, 10700, 11755, 11756
Samsung	10047, 10054, 10017, 10154, 10156, 10093, 10060, 10812, 10702, 10178, 10030, 10092, 10814, 10766, 10718, 10618, 10587, 10817, 10821, 11060, 11249, 11312, 11903, 11959, 10556, 10371, 10370, 10362, 10264, 10226, 10217, 10208, 10163, 10090, 10037, 10036, 10035, 10009
Sandra	10217
Sanjian	10264
Sanky	10060, 10030
Sansui	10463, 10060, 10030, 10706, 10037, 10371, 10455, 10602, 10714, 10861, 11371, 11537, 11904, 11911
Santon	10009
Sanyo	10047, 10054, 10154, 10000, 10156, 10463, 10180, 10145, 10171, 11755, 11208, 10704, 10508, 10370, 10264, 10217, 10208, 10170, 10163, 10108, 10088, 10037, 10036, 10011, 10009
Sanyong	10037
Sanyuan	10093, 10009, 10817
Saville	10060

0.5.5	
SBR	10037, 10556
Sceptre	11217
Schaub Lorenz	10361, 10374, 10486, 10548, 10606, 10714, 11191
	11982. 11904. 11137. 11037.
Schneider	10714, 10668, 10648, 10556,
Schlielder	10394, 10371, 10361, 10352, 10343, 10218, 10217, 10163,
	10070, 10037
Scotch	10178
Scotland	10163
Scott	10236, 10180, 10178, 10030
	10047, 10054, 10017, 10154, 10000, 10156, 10051, 10093,
Sears	10060, 10053, 10178, 10030,
	10171, 10166, 10035, 10036, 10037, 10001, 10208, 11904
Seaway	10634
Seelver	11034
	10009, 10036, 10037, 10217,
SEG	10218, 10264, 10362, 10487, 10668, 11037, 11163
0.01	
SEI Sei Sinudana	10037, 10163
Sei-Sinudyne	10037
Seleco	10163, 10264, 10346, 10362, 10371
Semivox	10180
Semp	10156
Sencora	10009
Sentra	10035
Serino	10093, 10455, 10610
Shancha	10264, 10817
Shanghai	10009, 10208, 10226, 10264,
, in the second s	10817
Shaofeng	10145, 10817 10054, 10093, 10180, 10053,
Charp	10030, 10009, 10036, 10200,
Sharp	10650, 10653, 10668, 11193,
Shen Ying	11393, 11917 10092, 10009
Shencai	10145, 10009, 10264
Sheng Chia	10093, 10236, 10009
Shenyang	10009, 10264, 10817
Sherwood	10009, 10204, 10017
Shintoshi	10037
	10178, 10037, 10374, 10443,
Shivaki	10556
Show	10009, 10418
Siarem	10163
Siemens	10145, 10037, 10195, 10200, 10327
Siera	10037, 10556
Siesta	10370
Signature	10047, 10093, 10030
Silva	10037, 10361, 10648
Silva Schneider	10037, 11556
Silvano	10587
Silver	10036, 10361, 10455, 10715
SilverCrest	11037

Simpson	10178, 10030, 10011
Singer	10060, 10092, 10009, 10037, 10335, 10371, 10433, 11537
Sinotec	10773
Sinudyne	10037, 10163, 10361
Skantic	10163
SKY	10037, 10880, 11504
Sky Brazil	10880
Sky-North	10037
Skygiant	10180
Skyworth	10748, 10009, 10037, 10264, 10698, 10805, 10817, 11115
Sliding	10898, 10805, 10817, 11115
SLX	10668
Smaragd	10487
Soemtron	10865, 11298
Solar Drape	10000
Solavox	10037, 10163, 10361, 10548
Sole	10813
Sonawa	10218
Songba	10009
Soniko	10037
Sonitron	10208, 10217, 10370
Sonneclair	10037
Sonoko	10009, 10037, 10217, 10264
Sonolor	10163, 10208, 10361, 10548
Sontec	10009, 10037, 10370
	10017, 10154, 11100, 10000,
Sony	10150, 10053, 10011, 10036, 10037, 10074, 10353, 10650
	10150, 10053, 10011, 10036, 10037, 10074, 10353, 10650, 11505, 11651, 11751, 11904
Sound & Vision	10218, 10374
Soundesign	10180, 10178
Soundwave	10037, 10418, 10715
Sova	11952
Sowa	10156, 10051, 10060, 10178, 10092, 10036, 10226
Soyea	10773
Spectra	10009
Spectravision	10156, 10178
Spectroniq	11498
Squareview	10171
SR2000	10154, 10171
Ssangyong	10009
SSS	10180
Staksonic	10009
Standard	10009, 10037, 10217, 10218, 10374, 11037
Standard Components	10374, 11037 10009, 10218
	10236, 10180, 10009, 10037,
Starlite	10163, 10264
Stenway	10218
Stern	10163, 10264
Stevison	11982
Strato	10009, 10037, 10264

	Strong	11149, 11163
	Studio Experience	10843
	Stylandia	10217
	Sunkai	10218, 10455, 10487, 10610,
	Sunstar	10865 10009, 10037, 10264, 10371
	Sunwatt	10455
	Sunwood	10037
	Superla	10217
	Superscan	10093, 10864, 11944
		10093, 10804, 11944
1	Supersonic	
	SuperTech	10009, 10037, 10218, 10556
	Supra	10178, 10009, 10374
	Supreme	10000
	Susumu	10218, 10287, 10335
	Sutron	10009
	SV2000	10054
	SVA	10748, 10587, 10865, 10870 10871, 10872
	Svasa	10455
	Swisstec	10880, 11504
	Sydney	10217
	oyanoy	
	Sylvania	10047, 10054, 10154, 10000 10051, 10178, 10030, 10171 10022, 10026, 10037, 10076
	-,	10092, 10036, 10037, 10876 11271, 11904, 11944
	Symphonia	10000, 10180, 10178, 10171
	Symphonic	11904, 11944
	Synco	10000, 10451, 10093, 10060 10178, 10092, 10036
	Syntax	11144, 11240, 11331
	Sysline	10037
Ľ	T+A	10447
	Tacico	10178, 10092, 10009
1	Tai Yi	10009
	Taishan	10009, 10374, 10817
	Tandberg	10109, 10361, 10367
	Tandy	10093, 10163, 10217, 10218
	Targa	11371
	Tashiko	10092, 10036, 10163, 10170 10217, 10650
	Idolliku	10217, 10650
		10054, 10154, 10000, 10156 10051 10060 10037 10036
	Tatung	10051, 10060, 10037, 10036 10011, 10009, 10217, 11156 11191, 11248, 11254, 11371
		11191, 11248, 11254, 11371 11556, 11756
	TCL	10706, 10698, 11027, 11537
	TCM	10714, 10808
		10154, 10178, 10171, 10706
	Taga	11755, 11149, 11037, 10714 10712, 10698, 10668, 10512
	Teac	10/12, 10698, 10668, 10512 10455, 10418, 10264, 10217
		10170, 10037, 10009
	Tec	10009, 10037, 10163, 10217
1	Tech Line	10335 10037, 10668, 11163
	Techica	10218
	Technica	11982
	lecillica	11302

	10054, 10250, 10051, 10226, 10556, 10650
TechniSat	10556, 11267
Technisson	10714
Technosonic	10499, 10556
Technovox	10030, 10217
Techview	10847
Techwood	10250, 10051, 10060, 11163
	10556
	10051, 10093, 10178, 10092, 10009, 10036, 10218, 10264, 10653, 11040
Tedelex	10009, 10208, 10217, 10418, 10606, 10698, 11537
Teiron	10009
Tek	10820
Teknika	10054, 10463, 10180, 10150, 10060, 10178, 10092
Tolo System	10876
	10287, 10343
Telecolor	10017
	10037, 10163, 10217, 10218, 10394
	10702 11504 10821 10820
Telefunken	10819, 10714, 10712, 10688, 10625, 10587, 10560, 10498, 10486, 10346, 10343, 10335, 10287, 10109, 10074, 10073,
	10287, 10109, 10074, 10073, 10037
Telefusion	10037
Telegazi	10037, 10163, 10218, 10264
Telemeister	10037
Telesonic	10037
	10009, 10037, 10556
Teletech	10009, 10037, 10668, 11037
Teleton	10036, 10217
Televideon	10163
Teleview	10037
Tempest	10009, 10264, 10455
	10037
Tensai	10009, 10037, 10217, 10218, 10371, 10374, 10715, 11037
Tenson	10009
	10030, 10092
Tevion	10037, 10556, 10648, 10668,
TEVIOIT	10714, 10808, 11037, 11137, 11248, 11298, 11498, 11556
	10009, 10217, 10218, 10374
Texla	10780
ThemeScene	10887
	10047, 10178, 10001, 11904
Thomson	11447, 10047, 10037, 10109, 10287, 10335, 10343, 10560, 10625
Thorn	10035, 10036, 10037, 10073, 10074, 10109, 10163, 10264, 10335, 10343, 10361, 10499,
	10335, 10343, 10361, 10499, 10512
	10073, 10335, 10343, 10499

Tiane	10093, 10817	
Tiny	11269	V
TMK	10236, 10180, 10178	
TML	11756	
TNCi	10017	
Tobishi	10218	
Tobo	10748, 10009, 10264	
Tocom	10156	
Tokai	10009, 10037, 10163, 10217, 10374, 10668, 11037	
Tokaido	11037	
Tokyo	10035	
Tomashi	10218	
Tongguang	10264	
Tongtel	10587, 10780	
Topline	10668, 11037	
Toshiba	10154, 11256, 10156, 10150, 11265, 10060, 11145, 10145, 10166, 11037, 11156, 11153, 11164, 11356, 11508, 11556, 11656, 11704, 11945, 11971, 10845, 10821, 10718, 10650, 10618, 10508, 10264, 10217, 10195, 10109, 10070, 10036, 10035, 10011, 10009	
Totevision	10051	
Towada	10217	
Toyoda	10009, 10264, 10371	
Toyomenka	10178	
Trakton	10217, 10264	
Trans Continens	10037, 10217, 10668, 11037	۱۸/
TRANS-continents	10556, 10865	**
Transonic	10009, 10037, 10264, 10418, 10455, 10512, 10587, 10698, 10712, 10780	
Triad	10218, 10556	
Trident	10217	
Trio	11498	
Tristar	10218, 10264	
Triumph	10037, 10346, 10556	
Truetone	10250, 10051	
Tuntex	10030, 10092, 10009	
TVS	10463	
TVTEXT 95	10556	
Uher	10037, 10370, 10374, 10418, 10480, 10486	
Ultra	10092	
Ultravox	10037, 10163, 10374	
Unic Line	10037, 10455	
United	10037, 10587, 10714, 10715, 11037, 11982	
Universal	10047, 10037	
Universum	11163, 11037, 10668, 10631, 10618, 10512, 10480, 10418, 10370, 10362, 10361, 10346, 10327, 10264, 10217, 10200, 10195, 10170, 10109, 10074, 10070, 10037, 10036, 10011,	
	10009	

П

Univox	10037, 10163
V	10864, 10885, 11755, 11756
V2max	10865 X
V7 Videoseven	10880, 11217, 11755
Vector Research	10030 10037, 10217, 10668, 11037,
Vestel	11163
Vexa	10009, 10037
Victor	10250, 10053, 10036, 10650, 10653
Videocon	10508
Videologic	10218
Videologique	10217, 10218
Videomac	10009
VideoSystem	10037
Videotechnic	10217, 10374
Videoton	10163
Vidikron	10054
Vidtech	10178, 10036 Y
Viewpia	10876
Viewsonic	10857, 10864, 10885, 11330, 11578, 11627, 11755
Viking	10060
Viore	11207
Vision	10037, 10217, 10264
Vizio	10864, 10885, 11755, 11756,
Vortec	11758 10037
Voxson	10178, 10037, 10163, 10418
	10037, 10109, 10217, 10418,
Waltham	10443, 10668, 11037
	10047, 10054, 10017, 10154, Z 10000, 10156, 10051, 10093,
Wards	10000, 10156, 10051, 10093, 10236, 10180, 10060, 10178, 10236, 10180, 11047, 11156
	10030, 10166, 11347, 11156, 11147, 10866, 10195, 10001,
	10037, 10035
Warumaia	10374, 10661
Watson	10009, 10037, 10163, 10218, 10394, 10668, 10714, 11037
Watt Radio	10163
Waycon	10156
Wega	10036, 10037 X
Wegavox	10009 A
Weipai	10009
Welltech	10714
Weltblick	10217
Welton	10178
Weltstar	11037
Westinghouse	10000, 10451, 10885, 10889, 11282, 11577
Wharfedale	10037, 10556, 10860, 11556 B
White	10451, 10236, 10463, 10037,
Westinghouse Windsor	10623, 10889, 11909 10668, 11037
Windy Sam	10556
Wintel	10714 D
World	10451, 10236, 10463, 10180

World-of-Vision	10865, 10877, 10880, 11217, 11298
Worldview	10455
X-View	11191
Xenius	10634, 10661
Xiahua	10009, 10264, 10698, 10773, 10817
Xianghai	10009
Xiangyang	10264
Xiangyu	10009
Xihu	10264, 10817
Xingfu	10009
Xinghai	10264
XLogic	10698, 10860
Xoceco	11064
Xoro	11196, 11217
XR-1000	10154, 10180, 10171
Xrypton	10037
Yamaha	10030, 10650, 11576
Yamishi	10037, 10217, 10218, 10455
Yapshe	10250
Yingge	10009
Yokan	10037
Yoko	10009, 10037, 10217, 10218, 10264, 10370
Yonggu	10009
Yorx	10030, 10218
Youlanasi	10817
Yousida	10009
Yuhang	10009
Zanussi	10163, 10217, 10264
Zenith	10047, 10017, 10000, 10093, 10463, 11265, 10812, 10178, 10030, 11145, 10145, 10171, 10092, 10037, 11904, 11909, 11911
ZhuHai	10009, 10374

Г١	//DVD Combi	ination %2, %4
÷2)	
1	Advent	11933
	Akai	11675
	Akura	11982
	Alba	11037
	Amstrad	11982
	Apex Digital	11943
	Audiovox	11937, 11951, 11952
	Axion	11937, 11958
3	Black Diamond	11037
	Bush	10698, 11037, 11900
;	Centrum	11037
	Crown	11037
)	D-Vision	11982
	Denver	10587

Elfunk	11037	
Ferguson	11037	E
Finlux	11556	
Goodmans	10587, 11037, 11900	
Hitachi	11960	F
JDV	11982	
Jensen	11933	G
KLH	11962	
Lenco	10587	
Logik	11037	Н
Luker	11982	
Luxor	11037	J
Matsui	11037	
Maxim	11982	К
Medion	11900	L
Mirror	11900	
Naiko	11982	
Narita	11982	Μ
Panasonic	11941	
	10698	Ν
Prima	11933	
RCA	11948, 11958	
Roadstar	11900	0
		P
÷		
SEG		R
Sova	11952	S
Stevison	11982	-
,		
Technica		
		Т
		•
		U
		•
		v
		-
		T
		₩2
		Α
		В
D-Vision	31367	
	Ferguson Finlux Goodmans Hitachi JDV Jensen KLH Lenco Logik Luker Luxor Matsui Matsui Matsui Maxim Medion Mirror Naiko Narita Panasonic Philips Powerpoint Prima RCA Roadstar Saivod Samsung Schneider	Ferguson11037Finlux11556Goodmans10587, 11037, 11900Hitachi11960JDV11982Jensen11933KLH11962Lenco10587Logik11037Luker11982Luxor11037Matsui11037Matsui11037Matsui11982Medion11900Mirror11900Narita11982Panasonic11941Philips11454, 10556, 11961Powerpoint10698Prima11933RCA11948, 11958Roadstar11900Saivod11982Samsung11903Schneider11982Suivol11982Stevison11982Stevison11982Stevison11982Stevison11982Stevison11982Stevison11982Stevison11982Stevison11982Stevison11982Stevison11982Stevison10698Thomson10625Transonic10587, 11037, 11982Vestel11037Akai30695, 30884Akura31367Alba30695, 30844Amstrad31367Alba30713, 30884Broksonic30695Bush30713, 30844Centrum30713Stizen30695Bush30713

	DMTech	31271
E	Elfunk	30713, 30884
	Emerson	30675, 31268
	ESA	31268
F	Ferguson	30695, 30713, 30884
-	Funai	31268
G	Goodmans	30713
	Grandin	30713
	Grundig	30539, 30695
н	Hitachi	31247
	Insignia	31268
Ĵ	-	31367
	JNC	31271
К	Konka	31192
	Logik	30713, 30884
	Luker	31367
	Luxor	30713
М	Magnavox	31268
IVI	Matsui	30713, 30884
	Maxim	31367
Ν	Naiko	31367
	Narita	31367
	Neovia	31271
^	Orion	30695
-	Pacific	30695
F	Panasonic	
	Panasonic	31490
R	1 · ·	30539, 30854, 31260
n S	RCA Saivod	31022
3		31367
	Samsung	30899
	Sansui	30695
	Schneider	31367
	SEG	30713, 30884
	Sliding	31115
	Stevison	31367
\mathbf{T}^{\dagger}	Sylvania	30630, 30675, 31268
T	Technica	31367
	Thomson	30551
	Toshiba	30695
U	United	30713, 30884, 31367
	Universum	30713
v	Vestel	30884
		ination %2, %3, %4
₩2		
A	Aiwa	11904, 11911
	America Action	10180
	Amstrad	10171
	Audiovox	10180
B	Beko	10486
	Black Diamond	11909

	Broksonic	10463, 11911
	Bush	11556
C	Curtis Mathes	10051
D	Daewoo	11909
E	Emerson	10236, 10463, 11909, 11911
F	Ferguson	10073, 10625
	Fidelity	10171
	Funai	11904
G	GE	10047, 10051, 10093, 11917,
	GoldStar	11922 10037
	Goodmans	10374, 11909
	Grundig	
н	Harley Davidson	10037, 10195, 10556 11904
п	Hinari	10036
	Hitachi	11904
	Internal	11909
j	JVC	11903
L	LG	10178
	Lloyd's	11904
м	Magnavox	10054, 11904
IVI	Memorex	10250
	Mitsubishi	10230
0	Orion	10463, 11911
P	Palsonic	11904
r	Panasonic	10250, 10051
	Penney	10250, 10051
	Philips	10037, 10556
0		10250, 10051
R	Radiola	10556
	RadioShack	11904
	RCA	10047, 10051, 10093, 11917,
•		11922
S	Saba	10625
_	Samsung	11959
	Sansui	10463, 11904, 11911
	Schneider	10037, 10556, 11904
	Sears Sharp	11904
	Siemens	10093, 11917
		10037 10000, 11505, 11904
	Sony Sylvania	10000, 11505, 11904
	Symphonic	11904
т	Teac	10178, 10171
	Technics	10556
※ 4	Thomas	11904
	Thomson	10625
	Toshiba	11971
14/	White	
W	Westinghouse	11909
Z	Zenith	11904, 11909, 11911
*3	3	
Α	Aiwa	20000, 20352, 20479, 20742,
~	-	21137

	Altei	20252	
	Akai Alba	20352 20352	
	America Action	20332	
	Amstrad	20000	
	Audiovox	20278	
В	Beko	20104	
D	Bestar	20278	0
	Blue Sky	20278, 20352, 20742	R
	BPI	20046	
	Broksonic	20002, 20479, 21479	
	Bush	20352, 20742	_
C	Citizen	20278, 21278	S
U	Curtis Mathes	20035, 21035	
D	Daewoo	20278, 20637, 21278	
U	Dantax	20352	
E I		20002, 20278, 20479, 20637,	
E	Emerson	21278, 21479	
F	Ferguson	20000, 20278	
	Fidelity	20000	
	Firstline	20278	
	Funai	20000	
G	GE	20060, 20035, 20048, 20240, 20807, 21035, 21060	
	GoldStar	20037, 20480, 21237	
	Goodmans	20278, 20352, 20637	
	Grandin	20278, 20742	
	Grundig	20081, 20347, 20352, 20742	
Н	Hanimex	20352	-
	Harley Davidson	20000	Т
	Hinari	20352	
	Hitachi	20000	
	Hypson	20037	
1	Internal	20278, 20637	
J	JBL	20278	
	JMB	20352	
Κ	Kambrook	20037	U
	Kneissel	20278, 20352	
L	LG	20037, 20480, 21237	N
	Lloyd's	20000	Ζ
	Loewe	20037	*
Μ	Magnasonic	20278, 21278	Ĩ
	Magnavox	20081, 20000, 21781	1
	Magnin	20240	
	Matsui	20352, 20742	
	Medion	20352	
	Memorex	20162, 20037, 21162, 21237, 21262	*
	MGA	21262 20240	A
	Mitsubishi	20048, 20081, 20043, 20807	B
0	Optimus	20162, 21162, 21262	E
0		20002, 20352, 20479, 20742,	
_	Orion	21479	N
Ρ	Pace	20352	P
	Pacific	20742	R

	Palsonic	20000
	Panasonic	20035, 20162, 21035, 21162, 21262
1	Penney	20035, 20037, 20240, 21035, 21237
1	Philips	20081
	Portland	20637
2	Quasar	20035, 20162, 21035, 21162
2	Radiola	20081
	RadioShack	20000
	RCA	20060, 20035, 20048, 20240, 20807, 21035, 21060
5	Saba	20320
	Samsung	20240, 20432, 21014
	Sansui	20000, 20479, 21479
	Sanyo	20240
	Saville	20352
	Schneider	20081, 20000
	Sears	20037, 20000, 21237
	SEG	20637
	Sharp	20037, 20048, 20807
	Shivaki	20037
	Siemens	20081
	Sinudyne	20352
	Sony	20032, 20000, 21232
	Supra	20348
	Sylvania	20081, 21781
	Symphonic	20000
	Tatung	20352
	Teac	20037, 20000, 20637, 20642
1	Technics	20081
1	Technosonic	20352
	Telefunken	20278
1	Thomas	20000
1	Thomson	20278
e i	Toshiba	20352, 20432, 20845, 21145
וו	United White	20742
V	Westinghouse	20278, 20637
2	Zenith	20000, 20479, 20637, 21479
: 4		
-	Thomson	30551
F١	//VCR/DVD C	ombination

	IV/VGR/DVD Compiliation					
		※ 2, ※ 3, ※ 4				
% 2	2					
A	Akai	11903				
В	Broksonic	11938				
Ε	Emerson	11944				
	ESA	11944				
Μ	Magnavox	11944				
Ρ	Panasonic	11946, 11947				
R	RCA	11953				

ж З S	Sharp	20807
		20007
×4 А	Akai	30899
F	Emerson	30821
1	ESA	30821
ท่	Magnavox	30821
P	0	31362, 31462
R	RCA	31132
S	Sharp	30630
	Superscan	30821
	Sylvania	30821
	Symphonic	30821
τl	Toshiba	31045
V	00	
V	CR	
A	A-Mark	20037, 20240, 20000, 20278, 20046
	ABS	21972
	Admiral	20060, 20048, 20039, 20047, 20104, 20121, 20209, 20479
	Adventura	20037, 20240, 20000
	Aiko	20278
	Aim	20278, 20348, 20642
	Aiwa	20037, 20032, 20000, 20209, 20041, 20348, 20352, 20479, 20742, 21137
	Akai	20037, 20240, 20041, 20106, 20315, 20348, 20352, 20642
	Akura	20041
	Alba	20081, 20000, 20209, 20278, 20315, 20348, 20352
	Alienware	21972
	Allegro	20039, 21137
	Allorgan	20240
	Allstar	20081
	America Action	20278
	American High	20035, 20081
	Amoisonic	20479
	Amstrad	20000, 20278
	Anam	20162, 20037, 20240, 20278, 20226, 20480
	Anam National	20162, 20226, 21162, 21562
	Ansonic	20000
	Aristona	20081
	ASA	20037, 20081
	Asha	20240
	Astra	20035, 20240
	Asuka	20037, 20081, 20000, 20038

11944

11944 11945

S Sharp

Sylvania

Symphonic Toshiba

	A 15 1 1	00001
	Audiolab	20081
	Audiosonic	20278
	Audiovox	20037, 20278, 20038
	Avis	20000
	AVP	20000, 20352
	Awa	20037, 20043, 20278, 20642
В	Baird	20000, 20104, 20041, 20278, 20046, 20106
	Basic Line	20104, 20278, 20046
	Beaumark	20240
	Beko	20104
	Bell & Howell	20035, 20048, 20039, 20000,
	Son a notion	20104, 20046, 20479
	Bestar	20278
	Black Diamond	20642
	Black Panther	20278
	Blaupunkt	20162, 20081, 20226
	Blue Sky	20037, 20209, 20278, 20348, 20352, 20480, 20642, 20742,
	Dido oky	21137
	BPL	20046
	Brandt	20041, 20320
	Brandt Electronique	20041
	Brinkmann	20209, 20348
	Broksonic	20184, 20121, 20209, 20002,
		20348, 20479, 21479 20081, 20000, 20209, 20278,
	Bush	20315, 20348, 20352, 20642,
C	O a live	20742
C	Calix	20037
U	Candle	20037, 20038
	Candle Canon	20037, 20038 20035
	Candle Canon Capehart	20037, 20038 20035 20002
	Candle Canon Capehart Carena	20037, 20038 20035 20002 20081, 20209
	Candle Canon Capehart Carena Carrefour	20037, 20038 20035 20002 20081, 20209 20045
	Candle Canon Capehart Carena Carrefour Carrera	20037, 20038 20035 20002 20081, 20209 20045 20240
	Candle Canon Capehart Carena Carrefour Carrera Carver	20037, 20038 20035 20002 20081, 20209 20045 20240 20035, 20081
	Candle Canon Capehart Carena Carrefour Carrera Carver Casio	20037, 20038 20035 20002 20081, 20209 20045 20240 20035, 20081 20000
	Candle Canon Capehart Carena Carrefour Carrera Carver Casio Cathay	20037, 20038 20035 20002 20081, 20209 20045 20240 20035, 20081 20000 20278
	Candle Canon Capehart Carena Carrefour Carrera Carver Casio Cathay CCE	20037, 20038 20035 20002 20081, 20209 20045 20240 20035, 20081 20000 20278 20278
	Candle Canon Capehart Carena Carrefour Carrera Carver Casio Cathay CCE CGE	20037, 20038 20035 20002 20081, 20209 20045 20240 20035, 20081 20000 20278 20278 20278 20000, 20041
	Candle Canon Capehart Carena Carrefour Carrera Carver Casio Cathay CCE CGE Changhong	20037, 20038 20035 20002 20081, 20209 20045 20240 20035, 20081 20000 20278 20278 20278 20000, 20041 20048, 20081
	Candle Canon Capehart Carena Carrefour Carrera Carver Casio Cathay CCE CGE Changhong Cimline	20037, 20038 20035 20002 20081, 20209 20045 20240 20035, 20081 20000 20278 20278 20278 20000, 20041 20048, 20081 20209
	Candle Canon Capehart Carena Carrefour Carrera Carver Casio Cathay CCE CGE Changhong Cimline Cineral	20037, 20038 20035 20002 20081, 20209 20045 20240 20035, 20081 20000 20278 20278 20278 20000, 20041 20048, 20081 20209 20278
	Candle Canon Capehart Carena Carrefour Carrera Carver Casio Cathay CCE CGE Changhong Cimline Cineral Cinevision	20037, 20038 20035 20002 20081, 20209 20045 20240 20035, 20081 20000 20278 20278 20278 20000, 20041 20048, 20081 20209 20278 20278
	Candle Canon Capehart Carena Carrefour Carrera Carver Casio Cathay CCE CGE Changhong Cimline Cineral CineVision Citizen	20037, 20038 20035 20002 20081, 20209 20045 20240 20035, 20081 20000 20278 20278 20278 20000, 20041 20048, 20081 20209 20278
	Candle Canon Capehart Carena Carrefour Carrera Carver Casio Cathay CCE CGE Changhong Cimline Cineral Cinevision	20037, 20038 20035 20002 20081, 20209 2045 20240 20035, 20081 20000 20278 20278 20000, 20041 20048, 20081 20209 20278 2029 20278 21137 20035, 20037, 20240, 20000,
	Candle Canon Capehart Carena Carrefour Carrera Carver Casio Cathay CCE CGE Changhong Cimline Cineral CineVision Citizen	20037, 20038 20035 20002 20081, 20209 20045 20240 20035, 20081 20000 20278 20278 20000, 20041 20048, 20081 20209 20278 2029 20278 21137 20035, 20037, 20240, 20000, 20209, 20278, 20479, 21278
	Candle Canon Capehart Carena Carrefour Carrera Casio Carver Casio Cathay CCE Cathay CCE Changhong Cimline Cineral Cinevision Citizen Classic	20037, 20038 20035 20002 20081, 20209 20245 20240 20035, 20081 20000 20278 20278 20000, 20041 20048, 20081 20209 20278 21137 20035, 20037, 20240, 20000, 20209, 20278, 20479, 21278 20037
	Candle Canon Capehart Carena Carrefour Carrera Carver Casio Cathay CCE Cathay CCE Changhong Cimline Cineval Cinevision Citizen Classic Clatronic	20037, 20038 20035 20002 20041, 20209 20045 20240 20035, 20081 20000 20278 20278 20000, 20041 20048, 20081 20209 20278 2029 20278 21137 20035, 20037, 20240, 20000, 20209, 20278, 20479, 21278 20037
	Candle Canon Capehart Carena Carrefour Carrera Casio Carver Casio Cathay CCE Cathay CCE Changhong Cimline Cineva Cinevision Cinevision Citizen Classic Clatronic Colortyme	20037, 20038 20035 20002 20041, 20209 20245 20240 20035, 20081 20000 20278 20278 20000, 20041 20048, 20081 20209 20278 20178 20035, 20037, 20240, 20000, 20209, 20278, 20479, 21278 20037 20000, 21593
	Candle Canon Capehart Carena Carrefour Carrera Casio Carver Casio Cathay CCE Cathay CCE Changhong Cimline Cineva Cinevision Cinevision Citizen Classic Clatronic Caltronic Colortyme	20037, 20038 20035 20002 20081, 20209 20245 20240 20035, 20081 20000 20278 20278 20000, 20041 20048, 20081 20209 20278 20035, 20037, 20240, 20000, 20209, 20278, 20479, 21278 20035, 20037, 20240, 20000, 20209, 20278, 20479, 21278 20000, 21593 20060, 20035, 20045, 20278
	Candle Canon Capehart Carena Carrefour Carrera Casio Cathay CCE Cathay CCE Changhong Cimline Cinevision Cinevision Cinevision Citizen Classic Clatronic Clatronic Colortyme Colt Combitech	20037, 20038 20035 20002 20081, 20209 2045 20240 20035, 20081 20000 20278 20278 20000, 20041 20209 20278 20209 20278 20209 20278 20137 20035, 20037, 20240, 20000, 20235 20000, 21593 20000, 201593
	Candle Canon Capehart Carena Carrefour Carrera Carver Casio Cathay CCE CGE Changhong Cimline Cineral Cineral Cinevision Citizen Citizen Clatsonic Clatronic Colortyme Colt Combitech	20037, 20038 20035 2004 20045 20240 20035, 20081 20000 20278 20278 20000, 20041 20209 20278 20209 20278 20209 20278 20137 20035, 20037, 20240, 20000, 20037 20000, 21593 20000, 21593 20000 20052, 20035, 20045, 20278

	Crosley	20035, 20081, 20000
	Crown	20037, 20278, 20480
	Curtis Mathes	20060, 20035, 20162, 20240, 20000, 20041, 20278, 20432, 21035
	Cybernex	20240
	CyberPower	21972
	Cyrus	20081
D	Daewoo	20037, 20045, 20104, 20209, 20278, 20046, 20352, 20637, 20642, 21137, 21278
	Dansai	20278
	Dantax	20352
	Daytron	20037, 20278
	De Graaf	20048, 20081, 20042, 20104, 20046 20081, 20000, 20067, 20209,
	Decca	20001, 20000, 20007, 20203, 20041, 20352
	Degraff	20048, 20081, 20042, 20104
	Deitron	20278
	Dell	21972
	Denon	20081, 20042
	Derwent	20041
	Diamant	20037
	Diamond	20348
	Digitor	20642
	DirecTV	20739
	Domland	20209
	DSE	20642
	Dual	20081, 20000, 20041, 20278, 20348
	Dumont	20081, 20000, 20104
	Durabrand	20039, 20038, 20642
F	Dynatech Elbe	20240, 20000
E	Electrohome	20278, 20038 20060, 20037, 20240, 20000, 20043, 20209
	Electrophonic	20037
	Elin	20240
	Elta	20278
	Emerald	20184, 20121
	Emerex	20032
	Emerson	20035, 20037, 20184, 20039, 20240, 20045, 20000, 20121, 20043, 20209, 20002, 20278, 20348, 20479, 20637, 21278, 21479, 21593
	ESA	21137
	ESC	20240, 20278
	EuroLine	21593
F	Ferguson	20000, 20041, 20278, 20320, 20348
	Fidelity	20240, 20000, 20352, 20432
	Finlandia	20037, 20048, 20081, 20000, 20042, 20104, 20043, 20046, 20106, 20226
	Finlux	20081, 20000, 20042, 20104

G

Н

20037, 20209, 21137	20045, 20278,	20042, 20348,	20043, 20480,
	20047,	20000,	20104,
	20348		
		20000	
20037			
20037,	20000,	20278,	21593
20000			
20278			
20000			
21972			
20000,	20226,		
20081			
20060			
20045			
20348			
20037,	20000,	20104,	20278
20240,	20432,	20614,	21137
20209, 20226,	20278, 20480,	20038, 21137,	20225, 21237
20209,	20278,	20348,	20000, 20352,
20037			
20000			
20240,	20000,		
20742			
20081, 20348,	20226, 20352,	20320, 20742	20347,
20348			
20352			
20037,	20081,	20209,	20038
20240			
20000			
20081,	20038		
20046			
21972			
			00070
20352		20041,	20278,
	2035		
	20027	20001	20240
7111157	20037,	20001,	20240,
20045, 20046,	20089	20042,	20041,
20045, 20046, 20278,	20089	20042,	20041,
20045, 20046, 20278, 20081	20089	20042,	20041,
20045, 20046, 20278,	20089	20042,	20041,
	20209, 21137 20039, 20039, 20046 20209, 20035, 20037, 20037, 20037, 20037, 20037, 20030, 21072 20030, 21072, 20030, 21072, 20040, 21035, 20040, 20045, 20040, 20045, 20040, 20045, 20035, 20240, 20035, 20240, 20035, 20240, 20035, 20240, 20037, 20037, 20040, 20045, 20035, 20045, 20035, 20045, 20035, 20045, 20045, 20035, 20045, 20045, 20035, 20045	20209, 20278, 20039, 20047, 20039, 20047, 20039, 20047, 20037, 20045, 20037, 20045, 20037, 20045, 20037, 20000, 20278, 2000 20278, 2000 20078, 20032, 20060, 20035, 20060, 20226, 21035, 21060 20081, 20260, 20037, 20000, 20240, 20142, 20037, 20000, 20240, 20142, 20037, 20081, 20262, 20480, 20037, 20081, 20240, 20144, 20035, 20037, 20240, 20142, 20034, 20226, 20348, 20352 20348, 20352, 20348, 20352, 20348, 20352, 20349, 20041, 20240, 20144, 20352, 20481, 20352, 20047, 20240, 2026, 20348, 20352, 20348, 20352, 20349, 20260, 20349, 20260, 20340, 20260, 20340, 20260, 20340, 20260, 20352, 2037, 20209, 20240, 20209, 20240, 20209, 20240, 20209, 20240, 20209, 20252, 20357, 20240, 20209, 20252, 20357, 20252, 20357, 20252, 20357, 20045, 20037, 20035, 20047, 20035, 20047, 20240, 20357, 20240, 20357, 20240, 20357, 20240, 20357, 20240, 20357, 20240, 20357, 20259, 20357, 202	20039, 20047, 20000, 20046 20209, 20348 20037, 20045, 20000 20037, 20045, 20000 20037, 20000, 20278, 20000 20037 20000 2017 20000 2017 20000, 20276, 20320, 20320, 2035, 20048, 20000, 20226, 20320, 20035, 20048, 20000, 20042, 20041 20060, 20035, 20048, 20004, 20042, 20041 20040, 20422, 20614, 20032, 20031, 20240, 20037, 20038, 20226, 20480, 21137, 20037, 20038, 20209, 20278, 20348, 20209, 20278, 20348, 20209, 20278, 20348, 20209, 20274, 2044, 20000, 20042, 20046, 20226 20037, 2004, 20041, 20041, 20041, 20041, 20043, 20052, 20742, 2044, 20042, 2044, 20020, 20042, 2044, 20226, 20320, 20240, 20037, 20048, 20352, 20742 200381, 20226, 20320, 20348, 20352, 20742 20037, 20081, 20220, 2024, 20348, 20352, 20742 20348, 20352, 20742 20348, 20352, 20742 20348, 20352, 20742 20348, 20352, 20742 20348, 20352, 20742 20348, 20352, 20742 20348, 20352, 20742 20348, 20352, 20742 20348 20352 20037, 20081, 20209, 2034 20035, 20047, 20000 20046, 20226 20340, 20042, 20044, 20044 <

Hughes Network Systems	20042, 20739
Humax	20739
Hush	21972
Hypson	20037, 20000, 20209, 20278, 20352, 20480
Hytek	20047, 20000
iBUYPOWER	21972
Imperial	20000
Ingersol	20240, 20209
Interbuy	20037
Interfunk	20081, 20104
Internal	20278, 20637
International	20037, 20278, 20642
Intervision	20037, 20000, 20209, 20278, 20348
Irradio	20037, 20081, 21137
ITT	20240, 20104, 20041, 20046, 20106
ITT Nokia	20240, 20104, 20041, 20106
ITV	20037, 20278
Janeil	20240
JBL	20278
Jensen	20067, 20041
JMB	20209, 20348, 20352, 20742
Joyce	20000
JVC	20184, 20081, 20045, 20067, 20041, 21162
Kambrook	20037
Karcher	20081, 20278, 20642
KEC	20037, 20278 20037, 20209, 20278, 20106,
Kendo	20315, 20348, 20642
Kenwood	20067, 20041, 20038, 20046
KIC	20000
Kimari	20047
Kneissel	20037, 20209, 20278, 20348, 20352
Kodak	20035, 20037
Kolin	20043, 20041
Kolster	20209
KTV	20000
Kuba	20047
Kuba Electronic	20047 20278
Lenco	20278 20037, 20240, 20045, 20000,
LG	20042, 2029, 20278, 2008, 20225, 20480, 21137, 21237
Lifetec	20209, 20348
Linksys	21972
Lloyd's	20240, 20000, 20038
Loewe	21062, 20162, 20037, 20081, 21262, 21562
Logik	20240, 20000, 20209, 20106
Lumatron	20278, 21137
Lunatron	21137

PRESET CODE 11

	Luxor	20048, 20047, 20104, 20043, 20046, 20106, 20315
	LXI	20037, 20000, 20042, 20067
М	M Electronic	20037, 20240, 20000, 20038
	Magnadyne	20081
	Magnasonic	20037, 20240, 20000, 20278, 21278
	Magnavox	20035, 20037, 20048, 20039, 20081, 20240, 20000, 20226, 20618, 20642, 21593, 21781
	Magnin	20240
	Magnum	20642
	Manesth	20081, 20045, 20209
	Marantz	20035, 20081, 20209, 20038
	Mark	20000, 20278
	Marta	20037
	Mastec	20642
	Master's	20278
	Matsui	20037, 20240, 20209, 20278, 20348, 20352, 20742
	Matsushita	20035, 20162, 20081, 20226, 21162
	Media Center PC	21972
	Mediator	20081
	Medion	20209, 20348, 20352, 20642
	MEI	20035
	Memorex	20035, 20162, 20037, 20048, 20039, 20047, 20240, 20000, 20104, 20209, 20278, 20046, 20348, 20479, 21162, 21237, 21262
	Metronic	20081
	Metz	21062, 20162, 20037, 20081, 20226, 20347, 20836, 21162, 21262, 21562
	MGA	20060, 20240, 20043
	MGN Technology	20240
	Micormay	20348
	Micromaxx	20209
	Microsoft	21972
	Midland	20240
	Migros	20000
	Mind	21972
	Minolta	20042
	Mitsubishi	20060, 20048, 20047, 20081, 20000, 20042, 20067, 20043, 20041, 20480, 20642, 20807
	Motorola	20035, 20048
	MTC	20240, 20000
	MTX	20000
	Multitec	20037
	Multitech	20039, 20000
	Murphy	20000
	Myryad	20081
Ν	NAD	20240, 20104
	Naiko	20348, 20642
	NAP	20039
	National	20226

Nebula Electronics	20033
NEC	20035, 20037, 20048, 20104, 20067, 20041, 20278, 20038, 21137
Neckermann	20081, 20041
Nesco	20000
Neufunk	20209
Newave	20037
Nikkai	20278
Nikko	20037, 20278
Nikkodo	20037, 20278
Nishi	20240
Niveus Media	21972
Noblex	20240
NUDIEX	20048, 20081, 20240, 20042,
Nokia	20104, 20041, 20248, 20042, 20104, 20041, 20278, 20046, 20106, 20315
Nordmende	20067, 20041, 20320
Northgate	21972
Nu-Tec	20209
Oceanic	20048, 20081, 20000, 20104, 20041, 20046, 20106
Okano	20209, 20278, 20315, 20348
Olympus	20035, 20162, 20104, 20226
Onimax	20642
Onkyo	20222
Optimus	21062, 20035, 20162, 20037, 20048, 20047, 20240, 20000, 20104, 20432, 21162, 21262
Orion	20184, 20240, 20000, 20104, 20121, 20209, 20002, 20278, 20348, 20352, 20479, 20742, 21479
Orson	20000
Osaki	20037, 20000
Otake	20209
Otto Versand	20081
Pace	20352
Pacific	20000, 20348, 20642, 20742
Packard Bell	21972
Palladium	20037, 20209, 20041, 20348
Palsonic	20000, 20642
Panama	20035
Panasonic	21062, 20035, 20162, 20000, 20225, 20226, 20614, 20616, 20836, 21035, 21162, 21262, 21562
Pathe Cinema	20043
Pathe Marconi	20041
Penney	20035, 20162, 20037, 20047, 20081, 20240, 20000, 20042, 20067, 20038, 21035, 21237
Pentax	20042
Perdio	20000, 20209
Philco	20035, 20081, 20000, 20209, 20038, 20226, 20479

Salora

0

P

	Philips	20035, 20162, 20048, 20081, 20045, 20000, 20209, 20226, 20616, 20618, 20739, 21081, 21181
	Phoenix	20278
	Phonola	20081
	Pilot	20037
	Pioneer	20162, 20081, 20042, 20067
	Polk Audio	20081
	Portland	20278, 20637
	Presidian	21593
	Prinz	20000
	Profitronic	20081, 20240
	Proline	20000, 20278, 20320, 20642
	Proscan	20060, 21060
	Prosco	20278
	Prosonic	20209, 20278
	Protec	20000
ĺ	Protech	20081
ļ	ProVision	20278
	Pulsar	20039, 20240, 20278
	Pulser	20240
	Pye	20081, 20000
	Qisheng	20060
	Quarter	20046
	Quartz	20035, 20047, 20046
ļ	Quasar	20035, 20162, 20002, 20278, 20226, 21035, 21162
	Quelle	20081
	Radialva	20037, 20048, 20081
	Radiola	20081
	Radionette	20037, 21137
	RadioShack	20035, 20162, 20037, 20048, 20047, 20240, 20000, 20104, 20046, 21162
	Radix	20037
	Randex	20037
	nalluex	20037
	Rank	20037 20041
	Rank	20041
	Rank Rank Arena	20041 20041 20060, 20035, 20048, 20240, 20045, 20000, 20042, 20106, 20226, 20320, 20807, 20880,
	Rank Rank Arena RCA	20041 20041 20060, 20035, 20048, 20240, 20045, 20000, 20042, 20106, 20226, 20320, 20807, 20880, 21035, 21060 20035, 20162, 20037, 20048, 20047, 20240, 20000, 20104,
	Rank Rank Arena RCA Realistic	20041 20040 20060, 20035, 20048, 20240, 20045, 20000, 20042, 20106, 2026, 20320, 20807, 20880, 21035, 21060 20035, 20162, 20037, 20048, 20047, 20240, 20000, 20104, 20121, 20278, 20046, 21162
	Rank Arena RCA Realistic Reoc	20041 20040 20060, 20035, 20048, 20240, 20045, 20000, 20042, 20106, 2026, 20320, 20807, 20880, 21035, 21060 20035, 20162, 20037, 20048, 20047, 20240, 20000, 20104, 20121, 20278, 20046, 21162 20348
	Rank Arena RCA Realistic Reoc ReplayTV	20041 20041 20060, 20035, 20048, 20240, 20045, 20000, 20042, 20106, 20226, 20320, 20807, 20880, 21035, 21060 20035, 20162, 20037, 20048, 20047, 20240, 20000, 20104, 20121, 20278, 20046, 21162 20348 20614, 20616
	Rank Arena Rank Arena RCA Realistic Reoc ReplayTV Rex	20041 20060, 20035, 20048, 20240, 20045, 20000, 20042, 20106, 20226, 20320, 20807, 20880, 21035, 21060 20035, 20162, 20037, 20048, 20047, 20240, 20000, 20104, 20121, 20278, 20046, 21162 20348 20614, 20616 20041 21972 21137
	Rank Arena Rank Arena RCA Realistic Reoc ReplayTV Rex Ricavision Rio Roadstar	20041 20041 20060, 20035, 20048, 20240, 20245, 20000, 20042, 20106, 20226, 20320, 20807, 20880, 21035, 20162, 20037, 20048, 20035, 20162, 20037, 20048, 20047, 20240, 20000, 20104, 20121, 20278, 20046, 21162 20348 20614, 20616 20041 21972 21137 21037, 20081, 20240, 20278, 20038, 20742
	Rank Arena Rank Arena RCA Realistic Reoc ReplayTV Rex Ricavision Rio Roadstar Runco	20041 20041 20060, 20035, 20048, 20240, 20245, 20000, 20042, 20106, 20226, 20320, 20807, 20880, 21035, 20162, 20037, 20048, 20035, 20162, 20037, 20048, 20047, 20240, 20000, 20104, 20121, 20278, 20046, 21162 20348 20614, 20616 20041 21972 21137 20037, 20081, 20240, 20278, 20038, 20742 20039
	Rank Arena Rank Arena RCA Realistic Reoc ReplayTV Rex Ricavision Rio Roadstar	20041 20041 20060, 20035, 20048, 20240, 20245, 20000, 20042, 20106, 20226, 20320, 20807, 20880, 21035, 20162, 20037, 20048, 20035, 20162, 20037, 20048, 20047, 20240, 20000, 20104, 20121, 20278, 20046, 21162 20348 20614, 20616 20041 21972 21137 21037, 20081, 20240, 20278, 20038, 20742

20104, 20043, 20046, 20106

Sampo	20037, 2004	g	
			20000.
Samsung	20060, 2024 20038, 2043	2, 20739,	21014
Samtron	20240		
Sanky	20048, 2003	9	
Sansei	20048	0 00007	00000
Sansui	20240, 2000 20041, 2000 20479, 2147	2, 20106, 9	20348,
Sanyo	20048, 2004 20104, 2006 20348, 2047	7, 20209,	
Saville	20240, 2027	8, 20352	
SBR	20081		
ScanSonic	20240		
Schaub Lorenz	20000, 2010 20315, 2034 20037, 2008	8	
Schneider	20042, 2027 20642, 2113	8, 20348,	
Scott	20184, 2004		
Sears	20060, 2003 20048, 2003 20045, 2000 20067, 2004 21237, 2004	9, 20047, 0, 20042, 3, 20209,	20033, 20104.
Seaway	20278		
SEG	20081, 2024 20642	0, 20278,	20637,
SEI	20081		
Sei-Sinudyne	20081		
Seleco	20037, 2004	1	
Semp	20045		
Sentra	20278		
Sharp	20037, 2004 20000, 2020		20032,
Shinco	20000	0 20000	20104
Shintom Shivaki	20039, 2024	0, 20000,	20104
	20037 20240		
Shogun	20240 20037, 2008	1 20104	20046
Siemens	20320, 2034		20010,
Siera	20081		
Signature	20060, 2003 20000, 2004		20048,
Silva	20037		
Silver	20278		
SilverCrest	20642		
Singer	20037, 2024		20348
Sinudyne	20081, 2020	9, 20352	
Smaragd	20348	0 01407	
Sonic Blue	20614, 2061	6,2113/	
Sonographe	20046	c	
Sonolor	20048, 2004		
Sontec	20037, 2027	ŏ	
Sonwa	20642	8 20017	20022
Sony	20035, 2004 20033, 2000 20106, 2022 21972	0,20067,	20046,

Soundmaster	20000
Soundwave	20037, 20209, 20348
Stack 9	21972
Standard	20278
Stern	20278
STS	20042
Sunkai	20209, 20278, 20348
Sunstar	20000
Suntronic	20000
Supra	20037, 20278, 20348
Susumu	20037
SV2000	20000
SVA	20000
Sylvania	20035, 20081, 20000, 20043, 21593, 21781
Symphonic	20240, 20000, 20002, 21593
Systemax	21972
T+A	20162
Tagar Systems	21972
Taisho	20209
Tandberg	20278
Tandy	20000, 20104
Tashiko	20037, 20048, 20081, 20240, 20000
Tatung	20048, 20081, 20045, 20000, 20067, 20043, 20209, 20041, 20348, 20352
Tchibo	20348
TCM	20348
Теас	20037, 20000, 20067, 20041, 20278, 20637, 20642, 21593
Teac Technics	20278, 20637, 20642, 21593 20035, 20162, 20037, 20081, 20000, 20226, 21162
Teac Technics TechniSat	20278, 20637, 20642, 21593 20035, 20162, 20037, 20081, 20000, 20226, 21162 20348
Teac Technics	20278, 20637, 20642, 21593 20035, 20162, 20037, 20081, 20000, 20226, 21162 20348 20352
Teac Technics TechniSat	20278, 20637, 20642, 21593 20035, 20162, 20037, 20081, 20000, 20226, 21162 20348
Teac Technics TechniSat Technosonic	20278, 20637, 20642, 21593 20035, 20162, 20037, 20081, 20000, 20226, 21162 20348 20352 20035, 20037, 20048, 20041,
Teac Technics TechniSat Technosonic Teco	20278, 20637, 20642, 21593 20035, 20162, 20037, 20081, 20000, 20226, 21162 20348 20352 20035, 20037, 20048, 20041, 20038
Teac Technics TechniSat Technosonic Teco Tedelex	20278, 20637, 20642, 21593 20035, 20162, 20037, 20081, 20000, 20226, 21162 20348 20352 20035, 20037, 20048, 20041, 20038 20037, 20209, 20348, 20642
Teac Technics TechniSat Technosonic Teco Tedelex Teknika	20278, 20637, 20642, 21593 20035, 20162, 20037, 20081, 20000, 20226, 21162 20348 20352 20035, 20037, 20048, 20041, 20038 20037, 20209, 20348, 20642 20035, 20037, 20000
Teac TechniCs TechniSat Technosonic Teco Tedelex Teknika Teleavia	20278, 20637, 20642, 21593 20035, 20162, 20037, 20081, 20000, 20226, 21162 20348 20352 20035, 20037, 20048, 20041, 20035, 20037, 20048, 20642 20035, 20037, 20000 20041 20240 20209, 20041, 20278, 20320, 20642
Teac Technics TechniSat Technosonic Teco Tedelex Teknika Teleavia Telecorder	20278, 20637, 20642, 21593 20035, 20162, 20037, 20081, 20000, 20226, 21162 20348 20352 20035, 20037, 20048, 20041, 20035, 20037, 20048, 20642 20035, 20037, 20000 20041 20240 20209, 20041, 20278, 20320, 20642 20226
Teac Technics TechniSat Technosonic Teco Tedelex Teknika Teleavia Telecorder Telefunken	20278, 20637, 20642, 21593 20035, 20162, 20037, 20081, 20000, 20226, 21162 20348 20352 20035, 20037, 20048, 20041, 20035, 20037, 20048, 20642 20035, 20037, 20000 20041 20240 20209, 20041, 20278, 20320, 20642
Teac Technics TechniSat Technosonic Teco Tedelex Teknika Teleavia Telecorder Telefunken Telerent	20278, 20637, 20642, 21593 20035, 20162, 20037, 20081, 20000, 20226, 21162 20348 20352 20035, 20037, 20048, 20041, 20035, 20037, 20048, 20642 20035, 20037, 20000 20041 20240 20209, 20041, 20278, 20320, 20642 20226
Teac Technics TechniSat Technosonic Teco Tedelex Tedelex Teknika Teleavia Teleavia Telecorder Telefunken Telerent Telerent Telestar Teletech Tensai	20278, 20637, 20642, 21593 20035, 20162, 20037, 20081, 20000, 20226, 21162 20348 20352 20035, 20037, 20048, 20041, 20037, 20209, 20348, 20642 20035, 20037, 20000 20041 20240 2029, 20041, 20278, 20320, 20642 20226 20037 20000, 20278 20007, 20000, 20278
Teac Technics TechniSat Technosonic Teco Tedelex Tedelex Teknika Teleavia Teleavia Telecorder Telefunken Telerent Telerent Telestar Teletech	20278, 20637, 20642, 21593 20035, 20162, 20037, 20081, 20000, 20226, 21162 20348 20352 20035, 20037, 20048, 20041, 20037, 20209, 20348, 20642 20035, 20037, 20000 20041 20240 20209, 20041, 20278, 20320, 20642 20226 20037 20000, 20278
Teac Technics TechniSat Technosonic Teco Tedelex Tedelex Teknika Teleavia Teleavia Telecorder Telefunken Telefunken Telerent Telerent Teletech Teletech Tensai Tevion Texet	20278, 20637, 20642, 21593 20035, 20162, 20037, 20081, 20000, 20226, 21162 20348 20352 20035, 20037, 20048, 20041, 20037, 20209, 20348, 20642 20035, 20037, 20000 20041 20240 20240 2029, 20041, 20278, 20320, 20642 20226 20037 20000, 20278 20003, 20000, 20278 20209, 20348, 20479, 20642 20278
Teac Technics TechniSat Technosonic Teco Tedelex Tedelex Teleavia Teleavia Telecorder Telefunken Telerent Telerent Telestar Teletech Tensai Tevion	20278, 20637, 20642, 21593 20035, 20162, 20037, 20081, 20000, 20226, 21162 20348 20352 20035, 20037, 20048, 20041, 20035, 20037, 20048, 20042 20035, 20037, 20000 20041 20240 20209, 20041, 20278, 20320, 20642 20226 20037 20000, 20278 200037, 20000, 20278 20209, 20348, 20479, 20642 20278 20000, 2002
Teac Technics TechniSat TechniSat Technosonic Teco Tedelex Teknika Teleavia Teleavia Telecorder Telefunken Teletech Teletech Teletech Teletar Telvion Texet Thomas Thomson	20278, 20637, 20642, 21593 20035, 20162, 20037, 20081, 20048 20352 20035, 20037, 20048, 20041, 20035, 20037, 20048, 20041, 20037, 20209, 20348, 20642 20037, 20209, 20348, 20642 20240 20240 20240 20240 20242 20226 20037 20000, 20278 20037, 20000, 20278 20037, 20000, 20278 20209, 20348, 20479, 20642 20278 20209, 20041, 20278, 20208 20000, 20002
Teac Technics TechniSat Technosonic Teco Tedelex Teknika Teleavia Teleavia Telecorder Telefunken Telerent Telerent Teletech Teletech Tensai Tevion Texet Thomas Thomson	20278, 20637, 20642, 21593 20035, 20162, 20037, 20081, 20000, 20226, 21162 20348 20352 20035, 20037, 20048, 20041, 20035, 20037, 20048, 20042 20037, 20209, 20348, 20642 20209, 20041, 20278, 20320, 20642 20226 20037 20000, 20278 20037, 20000, 20278 20037, 20000, 20278 20209, 20348, 20479, 20642 20278 20209, 20044, 20479, 20641, 20278, 20060, 20067, 20041, 20278,
Teac Technics TechniSat Technosonic Teco Tedelex Teknika Teleavia Teleavia Telecorder Telerent Teletech Tensai Tevet Thomas Thomson Thorn Tisonic	20278, 20637, 20642, 21593 20035, 20162, 20037, 20081, 20035, 20162, 20037, 20084, 20352 20035, 20037, 20048, 20041, 20035, 20037, 20048, 20642 20035, 20037, 20000 20041 20240 20209, 20041, 20278, 20320, 20642 20226 20037 20000, 20278 20037, 20000, 20278 20037, 20000, 20278 20209, 20348, 20479, 20642 20278 20000, 20002 20060, 20067, 20041, 20278, 20200 20037, 20104, 20041, 20320
Teac Technics TechniSat Technosonic Teco Tedelex Teknika Teleavia Teleavia Telecorder Telefunken Telerent Telerent Teletech Teletech Tensai Tevion Texet Thomas Thomson	20278, 20637, 20642, 21593 20035, 20162, 20037, 20081, 20000, 20226, 21162 20348 20352 20035, 20037, 20048, 20041, 20035, 20037, 20048, 20042 20037, 20209, 20348, 20642 20209, 20041, 20278, 20320, 20642 20226 20037 20000, 20278 20037, 20000, 20278 20037, 20000, 20278 20209, 20348, 20479, 20642 20278 20209, 20044, 20479, 20641, 20278, 20060, 20067, 20041, 20278,

	TNIX	20037
	Tocom	20240
	Tokai	20037, 20104, 20041
	Topline	20348
	Toshiba	20081, 20240, 20045, 20000, 20042, 20067, 20043, 20209, 20041, 20352, 20432, 20742, 20845, 21008, 21145, 21972, 21996
	Tosonic	20278
	Totevision	20037, 20240
	Touch	21972
	Toyoda	20278
	Tradex	20081
	Triad	20278
	Trix	20037
U	Uher	20240
	Ultra	20045, 20278
	Ultravox	20278
	Unitech	20240
	United	20348, 20742, 21593
	Universum	20037, 20081, 20240, 20000, 20104, 20209, 20106, 20348, 21137
V	Vector	20045
	Vector Research	20184, 20038
	Victor	20067, 20041
	Video Concepts	20045
	Video Technic	20000
	Videomagic	20037
	Videosonic	20240, 20000
	Viewsonic	21972
	Villain	20000
	Voodoo	21972
w	Wards	20060, 20035, 20037, 20048, 20039, 20047, 20081, 20033, 20240, 20045, 20000, 20042, 20043, 20041, 20038, 20046, 20479
	Watson	20081, 20352, 20642
	Weltblick	20037
	Wharfedale	20642
	White Westinghouse	20000, 20209, 20278, 20479, 20637
v	World	20209, 20002, 20348, 20479
X	XR-1000	20035, 20240, 20000
Y	Yamaha	20041, 20038
	Yamishi	20278
	Yoko	20037, 20240
Z	Zenith	20037, 20039, 20033, 20000, 20209, 20041, 20278, 20479, 20637, 21137, 21479
	ZT Group	21972
	ZX	20209, 20348, 20352

Ρ	VR *3	
A	ABS	21972
~	Alienware	21972
C	CyberPower	21972
Ď	Dell	21972
	DirecTV	20739
G	Gateway	21972
u	Go Video	20614
н	Hewlett Packard	21972
	Howard Computers	21972
	HP	21972
	Hughes Network Systems	20739
	Humax	20739
	Hush	21972
	iBUYPOWER	21972
L	Linksys	21972
Μ	Media Center PC	21972
	Microsoft	21972
	Mind	21972
Ν	Niveus Media	21972
	Northgate	21972
Ρ	Panasonic	20614, 20616
	Philips	20618, 20739
R	RCA	20880
	ReplayTV	20614, 20616
S	Samsung	20739
	Sonic Blue	20614, 20616
	Sony	20636, 21972
	Stack 9	21972
	Systemax	21972
Т	Tagar Systems	21972
	Tivo	20618, 20636, 20739
	Toshiba	21008, 21972, 21996
	Touch	21972
V	Viewsonic	21972
_	Voodoo	21972
Ζ	ZT Group	21972
D	VD Player	
1	3D LAB	30503, 30539
	4Kus	31158
Α	A-Trend	30714
~	Acoustic Solutions	30713, 30730, 31228
	AEG	30770, 30788, 30790, 31923
	AFK	31051, 31152, 31923
	Aim	30672, 30699, 30833
	Airis	30672, 31005, 31224, 31250
		31321, 31345
	Aiwo	20522 206/1

Aiwa

30533, 30641

Akai	30690, 30788, 30899, 31695	30695, 30790, 31115,	30705, 30884, 31205,	30770, 30898, 31233,
Akashi	30838			
AKI	31005			
Akira	30699,	31321		
Akura	31367	31051,		
Alba	30672,	30539, 30713, 31140,	30717, 30730, 31530,	30695, 30783, 31695
Alco	30790			
Alize	31151			
All-Tel	31451			
Allegro	30869			
Altacom	31224			
Amitech	30784,	30770,	30850	
Amoi	30852			
Amphion Media Works	30872			
Amstrad	30713,	30770,	31151,	31367
AMW	30872			
Anam	31913			
Ansonic	30759,	30774,	30831	
Apex Digital	30794,	30672, 30796, 31020,	30797,	30830,
Aristona	30539,		0.000,	01001
Arrgo	31023			
ASCOMTEC	31923			
Asono	31224			
Aspire Digital	31168			
Atacom	31224			
Audiosonic	30690,	31923		
Audiovox	30717,			
Audioworld	30790			
Autovox	30713			
Auvio	30843			
Awa	30730,	30872		
Axion	30730			
Base	31451			
Basic Line	30713			
Baze	30898			
BBK	30862,	31274		
Веер	31163			
Bellagio	31004			
Belson	31086,	31923		
Binatone	31923	2.020		
Black Diamond		30833,	30884	
Blaupunkt	30717	50000,	50004	
Blu:sens	31233,	31321		
Blue Nova		01021		
International	31321			
Blue Parade	30571			

R

Blue Sky	30672, 30651, 30695, 30699, 30713, 30790, 30843, 31423
Boghe	31004
Boman	30783, 30898, 31005
Bose	32023
Brainwave	30770, 31115
Brandt	30503, 30651, 30551
Broksonic	30695
brokoomo	30672, 30717, 30690, 30699,
Bush	30713, 30723, 30730, 30831, 30833, 30884, 31051, 31140, 31483, 31695, 31832
Byd:sign	30872
C-Tech	30798, 31152
California Audio Labs	
Cambridge Audio	30751, 31109
Cambridge Soundworks	30690
Campomatic Digital	31051
Cat	30699, 30789, 31421, 31923
CCE	30730
Celestial	31020
cello	31730
Centrex	30672, 31004
	30713, 30789, 31005, 31227,
Centrum	31923
CGV	30751, 31115
Changhong	30627, 31061
Cinea	30831, 30841
Cinetec	30713, 30872
cineULTRA	30699
CineVision	30833, 30869, 31483
Citizen	30695
Clairtone	30571
Classic	30730, 31730
Clatronic	30672, 30675, 30788, 31233
Clayton	30713
Coby	30730, 30852, 31086, 31321, 31923
Codex	31233
Commax	31321
Conia	30672, 30852, 31321
Contel	30788
Continental Edison	30831, 30872
Craig	30831
Creative	30503, 30539
Crown	30690, 30713, 30770, 31115
Crypto	31228
Curtis Mathes	31087
Cybercom	30831
CyberHome	30714, 30816, 30874, 31023, 31024, 31117, 31129, 31502
Cytron	30651, 30705, 30774, 31347
D-Vision	31115, 31367
Daenyx	30872

Daewoo	30490, 30784, 30705, 30714, 30770, 30833, 30869, 30872, 31172, 31483, 31906
Dalton	31036
Dansai	30770, 30783, 31115, 31695
Dantax	30539, 30713, 30723, 30790
Daytek	30872, 31005
Dayton	30872
DCE	30831
Decca	30770, 31115
Denon	30490, 30634, 31634, [32134] *
Denver	30672, 30699, 30788, 30898, 31056, 31104, 31321, 31923
Denzel	30665
Desay	30843, 31212
Dgtec	30672
Diamond	30651, 30751, 30768, 30790
Digihome	30713
DigiLogic	30713
digiRED	30717
Digitech	31832
Digitor	30651, 30690, 30833, 31005, 31423
Digitrex	30672, 31004, 31056
DiK	30831
Dinamic	30788
Disney	30675, 30831, 31270
DiViDo	30705
DK Digital	30831
DMTech	30783, 31271
Dragon	30831
DreamX	31151
DSE	30833, 31152, 31730
Dual	30651, 30665, 30675, 30713, 30730, 30783, 30790, 30831, 31023
Durabrand	30713, 30831, 31023, 31502
DVD2000	30521
DVX	30768
E:max	31233, 31321
EagleTec	30714
eBench	31152
ECC	30730
Eclipse	30723, 30751
Elfunk	30713, 30850, 30884
Elin	30770
Elite	31152
Ellion	30850, 31421
Elta	30672, 30690, 30770, 30788, 30850, 31051, 31115, 31151, 31233
Eltax	31233, 31321
Emerson	30591, 30675, 30705, 30821, 31268
Enterprise	30591

	Entivo	30503, 30539
	Enzer	30784, 30770, 31228
	ESA	30821, 31268
	EuroLine	30675, 30788, 31115, 31233
F	Fenner	30651
	Ferguson	30651, 30695, 30713, 30884, 30898, 31695, 31730
	Finlux	30672, 30591, 30741, 30751, 30770, 30783
	Firstline	30651, 30713, 30843, 30869, 31530
	Fisher	30670
	Funai	30675, 30695, 31268
~	Fusion	30862
G	Gateway	31158
	GE	30522, 30815, 30717
	General Electric	30717
	Germatic	31051
	Global Link	31224
	Global Solutions	30768
	Global Sphere	31152
	Go Video	30573, 30744, 30717, 30715, 30741, 30783, 30833, 30869, 31044, 31075, 31099, 31158, 31483, 31730
	GoldStar	30591, 30741, 30869
	Goodmans	30651, 30690, 30713, 30723, 30730, 30783, 30790, 30833, 31004, 31140, 31423, 31530, 31730, 31923
	GP Audio	31140
	GPX	30699, 30741
	Gradiente	30490, 30651
	Graetz	30665
	Gran Prix	30831, 30898
	Grandin	30713, 31233
	Greenhill	30717 30539, 30651, 30551, 30670,
	Grundig	30686, 30695, 30705, 30713, 30775, 30790, 31004, 31036, 31695, 31730, 31832, 31920
	Grunkel	30770, 30790, 30831
Η	H & B	30713, 30841, 30850, 31233, 31421
	Haaz	30751, 31152
	Haier	30843
	Hanseatic	30741, 30783, 30790
	Harman/Kardon	30582, 30702
	HCM	30788
	HDT	30705
	HE	30730, 31163, 31923
	Henss	30713
	HiMAX	30843
	Hitachi	30573, 30664, 30665, 30713, 31247, 31920
	Hiteker	30672, 31923
	Hoeher	30651, 30713, 30831, 31004, 31224

	Home Electronics	30730, 30770
	Home Tech Industries	31224
	Ноуо	30665
	Humax	30646
	Hyundai	30783, 30850, 31061, 31228
	iLo	31348
	Ingelen	30788
	Ingersol	31023
	Initial	30839, 30717
	Inno Hit	30713
	Insignia	31268
	Integra	30571, 30627, 31634
	Irradio	30869, 31115, 31224, 31233
	IRT	30783
	ISP	30695
J	Jamo	31036
-	Jaton	30665
	JBL	30702
	JDB	30730
	JDV	31367
	Jeken	30699
	Jepssen	31250
	JMB	30695
	JNC	30672, 31271
	JSI	31423
		30503, 30539, 30558, 30623,
	JVC	30867, 31164, 31597, 31860
	jWin	31051
K	Kansas Technologies	31233, 31530
	Karcher	30783
	Kawasaki	30790
		30790 30672, 30699, 30713, 30831
	Kawasaki	30790
	Kawasaki Kendo	30790 30672, 30699, 30713, 30831
	Kawasaki Kendo Kennex	30790 30672, 30699, 30713, 30831 30713, 30770, 30898 30490, 30534 30770
	Kawasaki Kendo Kennex Kenwood Kiiro Kiss	30790 30672, 30699, 30713, 30831 30713, 30770, 30898 30490, 30534
	Kawasaki Kendo Kennex Kenwood Kiiro	30790 30672, 30699, 30713, 30831 30713, 30770, 30898 30490, 30534 30770
	Kawasaki Kendo Kennex Kenwood Kiiro Kiss	30790 30672, 30699, 30713, 30831 30713, 30770, 30898 30490, 30534 30770 30665, 30841, 31523 30815, 30717, 30790, 31020 30533
	Kawasaki Kendo Kennex Kenwood Kiiro Kiss KLH	30790 30672, 30699, 30713, 30831 30713, 30770, 30898 30490, 30534 30770 30665, 30841, 31523 30815, 30717, 30790, 31020
	Kawasaki Kendo Kennex Kenwood Kiiro Kiss KLH Kloss	30790 30672, 30699, 30713, 30831 30713, 30770, 30898 30490, 30534 30770 30665, 30841, 31523 30815, 30717, 30790, 31020 30533
	Kawasaki Kendo Kennex Kenwood Kiiro Kiss KLH Kloss Koda	30790 30672, 30699, 30713, 30831 30713, 30770, 30898 30490, 30534 30770 30665, 30841, 31523 30815, 30717, 30790, 31020 30533 31230
	Kawasaki Kendo Kennex Kenwood Kiiro Kiss KLH Kloss Koda Konka	30790 30672, 30699, 30713, 30831 30713, 30770, 30898 30490, 30534 30770 30665, 30841, 31523 30815, 30717, 30790, 31020 30533 31230 31192
	Kawasaki Kendo Kennex Kenwood Kiiro Kiss KLH Kloss Koda Konka Koss	30790 30672, 30699, 30713, 30831 30713, 30770, 30898 30490, 30534 30770 30665, 30841, 31523 30815, 30717, 30790, 31020 30533 31230 31192 30651, 31061, 31423
	Kawasaki Kendo Kennex Kenwood Kiiro Kiss KLH Kloss Koda Konka Koss Kreisen	30790 30672, 30699, 30713, 30831 30713, 30770, 30898 30490, 30534 30770 30665, 30841, 31523 30815, 30717, 30790, 31020 30533 31230 31192 30651, 31061, 31423 31421
	Kawasaki Kendo Kennex Kenwood Kiiro Kiss KLH Kloss Koda Konka Koss Kreisen KXD	30790 30672, 30699, 30713, 30831 30713, 30770, 30898 30490, 30534 30770 30665, 30841, 31523 30815, 30717, 30790, 31020 30533 31230 31192 30651, 31061, 31423 31421 31321, 31923
	Kawasaki Kendo Kennex Kenwood Kiiro Kiss KLH Kloss Koda Konka Konka Koss Kreisen KXD Lasonic	30790 30672, 30699, 30713, 30831 30713, 30770, 30898 30490, 30534 30770 30665, 30841, 31523 30815, 30717, 30790, 31020 30533 31230 31192 30651, 31061, 31423 31421 31321, 31923 30627, 30798, 30789
	Kawasaki Kendo Kennex Kenwood Kiiro Kiss KLH Kloss Koda Konka Koss Kreisen KXD Lasonic Lawson	30790 30672, 30699, 30713, 30831 30713, 30770, 30898 30490, 30534 30770 30665, 30841, 31523 30815, 30717, 30790, 31020 30533 31230 31192 30651, 31061, 31423 31421 31321, 31923 30627, 30798, 30789 30768
	Kawasaki Kendo Kennex Kenwood Kiiro Kiss Kuss Kubs Koda Koda Konka Koos Kreisen KXD Lasonic Lawson Lecson	30790 30672, 30699, 30713, 30831 30713, 30770, 30898 30490, 30534 30770 30665, 30841, 31523 30815, 30717, 30790, 31020 30533 31230 31421 30651, 31061, 31423 31421 30627, 30798, 30789 30768 31533 30872 30872
	Kawasaki Kendo Kennex Kenwood Kiiro Kiss KLH Kloss Koda Koda Koss Kreisen KXD Lasonic Lasonic Lecson Leiker Lenco	30790 30672, 30699, 30713, 30831 30713, 30770, 30898 30490, 30534 30700 30665, 30841, 31523 30815, 30717, 30790, 31020 30533 31230 30533 31230 3051, 31061, 31423 31421 31321, 31923 30627, 30798, 30789 30768 31533 30872 30651, 30699, 30713, 30770, 30774
	Kawasaki Kendo Kennex Kenwood Kiiro Kiss Kiss KLH Kloss Koda Koda Koda Koss Kreisen KXD Lasonic Lawson Lecson Leiker Lenco Lenoir	30790 30672, 30699, 30713, 30831 30713, 30770, 30898 30490, 30534 30700 30655, 30841, 31523 30815, 30717, 30790, 31020 30533 31230 31230 31421 31321, 31923 30627, 30798, 30789 30768 31533 30872 30651, 30699, 30713, 30770, 30774, 30774, 31228
	Kawasaki Kendo Kennex Kenwood Kiiro Kiss KlH Kloss Koda Koda Koss Kreisen KXD Lasonic Lasonic Leson Leiker Lenco Lenoir Lenoix	30790 30672, 30699, 30713, 30831 30713, 30770, 30898 30490, 30534 30770 30665, 30841, 31523 30815, 30717, 30790, 31020 30533 31230 31421 30627, 30798, 30789 30627, 30798, 30789 30768 30872 30872 30573 30774 30527, 30799, 30713, 30770, 30770, 30774, 30774, 30774
	Kawasaki Kendo Kennex Kenwood Kiiro Kiss Kiss KLH Kloss Koda Koda Koda Koss Kreisen KXD Lasonic Lawson Lecson Leiker Lenco Lenoir	30790 30672, 30699, 30713, 30831 30713, 30770, 30898 30490, 30534 30700 30655, 30841, 31523 30815, 30717, 30790, 31020 30533 31230 31230 31421 31321, 31923 30627, 30798, 30789 30768 31533 30872 30651, 30699, 30713, 30770, 30774, 30774, 31228

	LG	30591, 30741, 30790, 30869, 31906		Μ
	Lifetec	30651, 30831, 31347		Μ
	Limit	30768, 31104		Μ
	LiteOn	31058, 31158		M
	Lodos	30713		Μ
	Loewe	30539, 30511, 30741, 30885		Μ
	Logik	30713, 30884		Μ
	Logix	30705, 30783	N	N
	Luker	31367		Ν
	Lumatron	30695, 30705, 30713, 30741,		N
		30833, 31115, 31321, 31832		N
	Lunatron	30741		Ν
	Luxman	30573		Ν
	Luxor	30713, 31004, 31695, 31730		Ν
M	Magnasonic	30651, 30675		Ν
	Magnat	31923		Ν
	Magnavox	30503, 30539, 30646, 30675, 30713, 30821, 30885, 31140,		N
	Magnex	31268 30723		N
	Majestic	31345		N
	Manhattan	30705, 30713		Ν
	Marantz	30503, 30539, 30675		N
	Mark	30713		N
	Marquant	30770		N
		30672, 30651, 30695, 30713,		N
	Matsui	30884, 31004, 31695, 31730	0	0
	Maxdorf	30788	•	0
	Maxent	31347		
	Maxim	30713, 30872, 31367		0
	Maya	31345		0
	MBO	30690, 30730, 31730		0
	McIntosh	31533		0
	MDS	30713		0
	Mecotek	30770		0
	Medion	30651, 30630, 30774, 30783, 30831, 31006, 31270, 31345, 31347, 31423		0 0
	MEI	30790		0
	Memorex	30690, 30695, 30831, 31270		0
	Metronic	30690		0
	Metz	30525, 30571, 30713	Ρ	P8
	MiCO	30723, 30751, 31223		Pa
	Micromaxx	31695		
	Micromedia	30503, 30539		Pa Pa
	Micromega	30539, 31005		Pa
	Microsoft	30522, 31708		10
	Microstar	30831		Pa
	Minato	30752		D
	Minax	30713		Pa
	Minerva	30705		pe
	Minoka	30770, 31115		Pł
	Mintek	30839, 30717		Pł
	Mirror	30752		

Mitsubishi	31521, 30521, 30713, 31403	
Mizuda	30770, 31451	
Monyka	30665	
MPX	30843	
Mustek	30730, 31730	
Mx Onda	30651, 30751, 31223	
Mystral	30831	
NAD	30741	
Naiko	30770, 31004, 31367	
Narita	31367	
NEC	30741, 30869, 31404	
Neovia	31271	
Nesa	30717	
Neufunk	30665	
Nevir	30770, 30831, 31197	
NexxTech	31402	
Nikkai	31923	
Nintaus	31051, 31202	
Niro	32024	
Norcent	30872, 31923	
Nordmende	30774, 30831	
Noriko	30752	
Nova	31923	
Nowa	30843	
Nu-Tec	31228	
Okano	30752	(
Olidata	30672	
Omni	30690, 30833, 30838, 30862, 31104, 31832	ł
Onix	30838	
Onkyo	30503, 30627	
Oopla	31158	
Орро	31224	
Optim	30843	
Optimus	30525, 30571	
Orbit	30872	
Orion	30695, 31233, 31695	
Oritron	30651	
Ormond	30713	
P&B	31451	
Pacific	30695, 30713, 30759, 30768, 30790, 30831	
Packard Bell	30831	
Palladium	30695, 30713, 31906, 31920	
Palsonic	30672, 30852, 31056, 31321	
Panasonic	30503, 30490, 30571, 30703, 31362, 31462, 31490, 31579, 31762, 31834, 31905, 31908	
Panda	30717, 30789, 31203	
peeKTon	30898, 31224	
Philco	30690, 30862	9
Philips	30503, 30539, 30646, 30675, 30854, 30885, 31158, 31260, 31267, 31340, 31354	•
	01207,01040,01004	

Philo 31345 Phonotrend 30699 PianoDisc 31024 Pioneer 30490, 30525, 30571, 30631, 31965 Plu2 30850 Pointer 30784 Polaroid 31020, 31061, 31086 Polk Audio 30539 Portland 30770 Powerpoint 30872, 31005 Presidian 30675 Prima 31228 Prinz 30831 Pro2 31345 Pro2 31004, 31483 Pro3 30672, 30651, 30686, 30833, 31004 Pro5 30672, 30651, 30686, 30833, 3121, 31923 Pro5 30522, 30571, 30717, 31721 Pro5 30651 Questar 30651 Radionette 30711, 30869, 31906, 32024 Radioshack
PianoDisc 31024 Pioneer 30490, 30525, 30571, 30631, 31965 Pineer 30850 Pointer 30784 Polaroid 31020, 31061, 31086 Polk Audio 30539 Portland 30770 Powerpoint 30872, 31005 Presidian 30672 Prima 31228 Prinz 30831 Procaster 30070, 30831 Procaster 30672, 30651, 30686, 30833, 31004, 31483 Procaster 30672, 30651, 30686, 30833, 31004, 31483 Proson 30522 Prosonic 30699, 30752 Provision 30539, 30646 QONIX 31051 Questar 30651 Radionette 30741, 3089, 31906, 32024 Radioshack 30571 Rate 30652 Rodionette 30522, 31022, 31132, 31763 Rate 30551 Radionette 30741, 3089, 31906, 32024 Ratioshack 30571 Realistic 30571
Pioneer 30490, 30525, 30571, 30631, 31965 Plu2 30850 Pointer 30784 Polaroid 31020, 31061, 31086 Polk Audio 30539 Portland 30770 Powerpoint 30872, 31005 Presidian 30675 Prima 31228 Prinz 30831 Procaster 31004 Procaster 31004 Proceed 30672, 30651, 30686, 30833, 31004, 31483 Proscan 30522 Prosonic 30699, 30730, 31163, 31321, 31923 Prosonic 30532, 30646 QONIX 31051 Questar 30651 Radioshack 30571 Ratite 30522, 30571, 30717, 30790, 31913, 31965 Realistic 30571 Rec 30490 Rec 30490 Rec 30552, 30771, 30
Profineer 31965 Plu2 30850 Pointer 30784 Polaroid 31020, 31061, 31086 Polk Audio 30539 Portland 30770 Powerpoint 30872, 31005 Presidian 30675 Prima 31228 Prinz 30831 Procaster 31004 Procaster 31004 Procaster 30672, 30651, 30686, 30833, Proscan 30522 Prosonic 30699, 30730, 31163, 31321, Strosonic 30699, 30730, 31163, 31321, Strosonic 30699, 30730, 31163, 31321, Prosonic 30699, 30730, 31163, 31321, Prosonic 30539, 30646 OONIX 31051 Ouwestar 30651 Radionette 30741, 30869, 31906, 32024 Radioshack 30571 Rate 30655 Realistic 30571 Rec 30490 Rec 30490 Rec 30493
Pointer 30784 Polaroid 31020, 31061, 31086 Polk Audio 30539 Portland 30770 Powerpoint 30872, 31005 Presidian 30675 Prima 31228 Prinz 30831 Prism 30705, 30831 Pro2 31345 ProCaster 31004 Proceed 30672, 30651, 30686, 30833, 31004, 31483 Procaster 30672, 30651, 30686, 30833, 31004, 31483 Proscan 30522 Proson 3013 Proson 30521 Proson 30523, 30646 QONIX 3059, 30730, 31163, 31321, 31923 Prosonic 30651 Radionette 30741, 30869, 31906, 32024 Radionette 30741, 30869, 31906, 32024 Radioshack 30571 Rate 30652 Radioshack 30571 Rate 30652 Radioshack 30571 Rate 30652 Radioshack 30571<
Polarció 31020, 31061, 31086 Polarció 30539 Portland 30770 Powerpoint 30872, 31005 Presidian 30675 Prima 31228 Prinz 30831 Prism 30705, 30831 Pro2 31345 ProCaster 31004 Proceed 30672, 30651, 30686, 30833, Proscan 30522 Proson 30713 Prosonic 30699, 30752 ProVision 30651 30651 30686, 30833, Proline 30522 Prosonic 30699, 30730, 31163, 31321, S1923 30646 QONIX 31051 QUNIX 31051 Questar 30651 Radionette 30741, 3089, 31906, 32024 Radioshack 30571 Rate 30655 Radioshack 30571 Rate 30552, 30571, 30717, 30790, RCA 30559, 30763, 30770, 30788, 3
Polk Audio 30539 Portland 30770 Powerpoint 30872, 31005 Presidian 30675 Prima 31228 Prinz 30831 Prism 30705, 30831 Pro2 31345 ProCaster 31004 Proceed 30672, 30651, 30686, 30833, 31004, 31483 Proscanc 30522 Proline 30672, 30651, 30686, 30833, 31004, 31483 Proscan 30522 Prosonic 30699, 30752 ProVision 30699, 30730, 31163, 31321, 31923 Pye 30539, 30646 QONIX 31051 Questar 30651 Radionette 30741, 30869, 31906, 32024 RadioShack 30571 Rate 30652 Rolanette 30751, 30717, 30790, 30783, 30770, 30783, 30770, 30783, 30793, 31913, 31965 Realistic 30571 Rect 30490 Rectar 30759, 30763, 30770, 30788, 30898, 31931, 31945 Relisys 31347 Reoc <
Portland 30770 Powerpoint 30872, 31005 Presidian 30675 Prima 31228 Prinz 30831 Prism 30705, 30831 Pro2 31345 ProCaster 31004 Proceed 30672, 30651, 30686, 30833, 31004, 31483 Proscance 30672, 30651, 30686, 30833, 31004, 31483 Proscan 30522 Proson 30713 Prosonic 30699, 30752 ProVision 30699, 30730, 31163, 31321, 31923 Pye 30539, 30646 QONIX 31051 Qwestar 30651 Radionette 30741, 30869, 31906, 32024 RadioShack 30571 Rate 30652 RoA 30522, 30571, 30717, 30790, 31913, 31965 Realistic 30571 Rate 30652 30898, 3143, 31923 Rec 30490 Rec 30490 Realistic 30752, 30768, 30770, 30788, 308989, 31345, 11923 Reisys
Powerpoint 30872, 31005 Presidian 30675 Prima 31228 Prinz 30831 Prism 30705, 30831 Pro2 31345 ProCaster 31004 Proceed 30672, 30651, 30686, 30833, 31004, 31483 Proceed 30672, 30651, 30686, 30833, 31004, 31483 Proscan 30522 Proson 30713 Proson 30713 Proson 30522 Provision 30699, 30752 ProVision 31923 Pye 30539, 30646 QONIX 31051 Qwestar 30651 Radionette 30711, 3089, 31906, 32024 RadioShack 30571 Rate 30652 RA 30522, 3102, 31132, 31769, 31913, 31905 Realistic 30571 Rec 30490 Rec 30490 Relisys 31347 Reoc 30752, 30763, 30770, 30788, 30898, 31345, 31923 Relisys 31347
Presidian 30675 Prima 31228 Prinz 30831 Prism 30705, 30831 Pro2 31345 ProCaster 31004 Proceed 30672, 30651, 30686, 30833, 31004, 31483 Proceed 30672, 30651, 30686, 30833, 31004, 31483 Proscen 30572, 30651, 30686, 30834, 31004, 31483 Proson 30572, 30651, 30686, 30834, 31004, 31483 Proson 30522 Prosonic 30699, 30752 ProVision 30651 Adionette 30531, 30646 QONIX 31051 Questar 30651 Radionette 30741, 30869, 31906, 32024 RadioShack 30571 Rate 30652 RAG 30522, 30571, 30717, 30790, 31913, 31965 Realistic 30571 RACA 30551 Recetar 30759, 30763, 30770, 30788, 30898, 31345, 31923 Relisys 31347 Reoc 30752, 30768 Revoy 30699, 30841 Rex <t< td=""></t<>
Prima 31228 Prinz 30831 Prism 30705, 30831 Pro2 31345 ProCaster 31004 Proceed 30672, 30651, 30686, 30833, 31004, 31483 Proscend 30522 Proson 30522 Proson 30599, 30752 ProVision 30699, 30730, 31163, 31321, 31923 Pye 30539, 30646 QONIX 30051 Radionette 30741, 30869, 31906, 32024 Radionette 30741, 30869, 31906, 32024 Radioshack 30571 Rate 30665 Radioshack 30571 Rate 30665 Ratise 30571 Rec 30490 Rec 30571 Rec 30571 Rec 30571 Rec 30490 Rec 30573, 30763, 30770, 30788, 30789, 30789, 30789, 30789, 30789, 30789, 30789, 30789, 30789, 30789, 30789, 30789, 30789, 30789, 30789, 30789, 30789, 30789, 30789, 30898, 31345, 31923 Reisys 31347 Reoc
Prinz 30831 Prism 30705, 30831 Pro2 31345 ProCaster 31004 Proceed 30672, 30651, 30686, 30833, 31004, 31483 Proscan 30522 Proson 30713 Proson 30699, 30752 ProVision 30699, 30730, 31163, 31321, 31923 Pye 30539, 30646 QONIX 31051 Quvestar 30651 Radionette 30741, 30869, 31906, 32024 Radioshack 30571 Rate 30665 RAdioShack 30571 Realistic 30571 Rec 30490 Rec 30490 Redistar 30552, 30763, 30770, 30788, 30898, 31345, 31923 Relisty 31347 Reoc 30752, 30768 Revoy 30689, 30841 Rex 30838 Richmond 31233 Rio 30869 Rodstar 30730, 30833, 30898, 31051, 3122, 31763, 30771, 30780, 30771, 30780, 30772, 30780, 30671, 30780, 30672, 30752, 30763
Prism 30705, 30831 Pro2 31345 Pro2aster 31004 Proceed 30672, 30651, 30686, 30833, 31004, 31483 Proceed 30672, 30651, 30686, 30833, 31004, 31483 Proscan 30522 Proson 301345 Proscan 30522 Proson 30699, 30752 ProVision 30699, 30730, 31163, 31321, 31923 Pye 30539, 30646 QONIX 31051 Quvestar 30651 Radionette 30711, 30869, 31906, 32024 Radioshack 30571 Raite 30665 Reck 30571, 30717, 30790, 3193, 31963, 31971, 30790, 31913, 31965 Reclistic 30571 Raite 30665 Reck 30490 Rec 30752, 30771, 30770, 30788, 31945, 31923 Relistic 30571 Recc 30752, 30768 Revoy 30639, 30841 Rex 30838 Richmond 31233 Rio 30869
Pro2 31345 ProCaster 31004 Proceed 30672 Proline 30672, 30651, 30686, 30833, 31004, 31483 Proscan 30522 Proson 30572 Prosonic 30699, 30752 ProVision 30593, 30730, 31163, 31321, 31923 Pye 30539, 30646 QONIX 31051 Qwestar 30651 Radionette 30741, 30869, 31906, 32024 Radioshack 30571 Rate 30665 RAdioShack 30571 Rate 30652, 31022, 31132, 31769, 31913, 31965 Realistic 30571 REC 30490 Redstar 30759, 30763, 30770, 30788, 30898, 31345, 31923 Relisys 31347 Reoc 30752, 30768 Revoy 30689 Silehmond 31233 Rio 30838 Richmond 31233 Rio 30869 Roadstar 30730, 3083, 30898, 31051, 31227
ProCaster 31004 Proceed 30672 Proline 30672, 30651, 30686, 30833, 31004, 31483 Proscan 30522 Proson 30572 Prosonic 30699, 30752 ProVision 30599, 30730, 31163, 31321, 31923 Pye 30539, 30646 QONIX 3051 Questar 30651 Radionette 30711, 30869, 31906, 32024 RadioShack 30571 Ratie 30665 RCA 30522, 30571, 30717, 30790, 30822, 31022, 31132, 31769, 31913, 31965 Realistic 30571 Rec 30490 Rec 30490 Redstar 30759, 30763, 30770, 30788, 30898, 31345, 31923 Relisys 31347 Reoc 30752, 30768 Revoy 30639, 30841 Rex 30838 Richmond 31233 Rio 308672, 30690, 30699, 30713, 30770, 30789, 30773, 30730, 30833, 30898, 31051, 31227 Rocksonic 30730, 30833, 30898, 31051, 31227
Proceed 30672 Proline 30672, 30651, 30686, 30833, 31004, 31483 Proscan 30522 Proson 30713 Prosonic 30699, 30752 ProVision 30539, 30703, 31163, 31321, 31923 Pye 30539, 30646 QONIX 31051 Questar 30651 Radionette 30711, 30869, 31906, 32024 Radioshack 30571 Ratice 30665 RCA 30522, 30571, 30717, 30790, 31913, 31965 Realistic 30571 Rec 30490 Rec 30759, 30763, 30770, 30788, 30898, 31345, 31923 Relisys 31347 Reoc 30752, 30768 Revoy 30639, 30841 Rex 30838 Richmond 31233 Rio 30869 Rio 30869 Roadstar 30730, 30833, 30898, 31051, 31227 Rocksonic 30789
Proline 30672, 30651, 30686, 30833, 31004, 31483 Proscan 30522 Proson 30713 Prosonic 30699, 30752 ProVision 30523, 30752 ProVision 30593, 30730, 31163, 31321, 31923 Pye 30539, 30646 QONIX 31051 Questar 30651 Radionette 30711, 30869, 31906, 32024 RadioShack 30571 Ratite 30665 RCA 30522, 30571, 30717, 30790, 31913, 31965 Realistic 30571 Rec 30490 Rec 30490 Rec 30759, 30763, 30770, 30788, 30898, 31345, 31923 Relistic 30752, 30768 Reco 30752, 30768 Revoy 30639, 30841 Rex 30838 Richmond 31233 Rio 30869 Richmond 31233, 30898, 31051, 31227 Rocksonic 30789, 30730, 30833, 30898, 31051, 31227
Tronne 31004, 31483 Proscan 30522 Proson 30713 Prosonic 30699, 30730, 31163, 31321, 31923 ProVision 30599, 30730, 31163, 31321, 31923 Pye 30539, 30646 QONIX 31051 Qwestar 30651 Radionette 30711, 30869, 31906, 32024 RadioShack 30571 Raite 30665 RCA 30522, 30571, 30717, 30790, 31913, 31965 Realistic 30571 Rec 30490 Rec 30759, 30763, 30770, 30788, 30898, 31345, 31923 Relistys 31347 Reoc 30752, 30768 Revoy 30639, 30841 Rex 30838 Richmond 31233 Rio 30869 Rio 30869 Roadstar 30730, 30833, 30898, 31051, 31227 Rocksonic 30789
Proscan 30522 Proson 30713 Prosonic 30699, 30752 ProVision 30699, 30730, 31163, 31321, 31923 ProVision 30539, 30646 QONIX 31051 Qwestar 30651 Radionette 30741, 30869, 31906, 32024 Radioshack 30571 Ratic 30655 Ratic 30522, 30571, 30717, 30790, 31913, 31965 Realistic 30571 REC 30490 Redstar 30759, 30763, 30770, 30788, 30898, 31345, 31923 Relisys 31347 Reoc 30752, 30768 Revoy 30699, 30841 Rex 30838 Richmond 31233 Rio 30869 Roadstar 30730, 30833, 30898, 31051, 31227 Rocksonic 30789, 30730, 30833, 30898, 31051,
Proson 30713 Prosonic 30699, 30752 ProVision 30699, 30730, 31163, 31321, 31923 Pye 30539, 30646 QONIX 31051 Qwestar 30651 Radionette 30741, 30869, 31906, 32024 RadioShack 30571 Raite 30655 Rakine 30571, 30717, 30790, 30822, 31022, 31132, 31769, 31913, 31955 Realistic 30571 REC 30490 Redstar 30759, 30763, 30770, 30788, 30898, 31345, 31923 Relisys 31347 Reoc 30752, 30768 Revoy 30699, 30841 Rex 30838 Richmond 31233 Rio 30672, 30690, 30699, 30713, 30672, 30690, 30699, 30713, 30672, 30690, 30699, 30713, 30672, 30690, 30699, 30713, 30672, 30693, 30838, 31051, 31227 Roadstar 30730, 30833, 30898, 31051, 31227
Prosonic 30699, 30752 ProVision 30699, 30730, 31163, 31321, 31923 Pye 30539, 30646 QONIX 31051 Qwestar 30651 Radionette 30741, 30869, 31906, 32024 RadioShack 30571 Rate 30655 RadioShack 30571, 30717, 30790, 30822, 31022, 31132, 31769, 31913, 31965 Realistic 30571 REC 30490 Redstar 30759, 30763, 30770, 30788, 30898, 31345, 31923 Relisys 31347 Reoc 30752, 30768 Revoy 30699, 30841 Rex 30838 Richmond 31233 Rio 30672, 30690, 30699, 30713, 30672, 30730, 30838, 31051, 31227 Roadstar 30730, 30833, 30898, 31051, 31227
ProVision 30699, 30730, 31163, 31321, 31923 Pye 30539, 30646 QDNIX 31051 Qwestar 30651 Radionette 30741, 30869, 31906, 32024 Radioshack 30571 Rate 30665 S0522, 30571, 30717, 30790, 30822, 31022, 31132, 31769, 31913, 31965 Realistic 30571 REC 30490 Redstar 30759, 30763, 30770, 30788, 30898, 31345, 31923 Relisys 31347 Reoc 30752, 30768 Revoy 30689, 30841 Rex 30838 Richmond 31233 Rio 30672, 30690, 30699, 30713, 31227 Roadstar 30730, 30833, 30898, 31051, 31227 Rocksonic 30789
From Statu 31923 Pye 30539, 30646 QONIX 31051 Qwestar 30651 Radionette 30741, 30869, 31906, 32024 RadioShack 30571 Rate 30665 Gamma 30522, 30571, 30717, 30790, 30822, 31022, 31132, 31769, 31913, 31965 Realistic 30571 ReCA 30559, 30763, 30770, 30788, 30898, 31345, 31923 Redstar 30752, 30768, 30770, 30788, 30898, 31347 Reoc 30752, 30768 Revoy 30639, 30841 Rex 30838 Richmond 31233 Rio 30672, 30690, 30699, 30713, 31227 Roadstar 30730, 30833, 30898, 31051, 31227 Rocksonic 30789
OONIX 31051 Qwestar 30651 Radionette 30741, 30869, 31906, 32024 RadioShack 30571 Ratie 30665 Rack 30522, 30571, 30717, 30790, 30822, 31022, 31132, 31769, 31913, 31965 Realistic 30571 RecA 30759, 30763, 30770, 30788, 30898, 31345, 31923 Redstar 30759, 30763, 30770, 30788, 30898, 31345, 31923 Relisys 31347 Reoc 30752, 30768 Revoy 30699, 30841 Rex 30838 Richmond 31233 Rio 30672, 30690, 30699, 30713, 30730, 30833, 30898, 31051, 31227 Rocksonic 30789
Owestar 30651 Radionette 30741, 30869, 31906, 32024 RadioShack 30571 Raite 30665 Raite 30622, 30571, 30717, 30790, 30822, 31022, 31132, 31769, 31913, 31965 Realistic 30571 Realistic 30571 Recl 30490 Redstar 30898, 31345, 31923 Relisys 31347 Reoc 30522, 30768 Revoy 30699, 30841 Rex 30838 Richmond 31233 Rio 30869 Roadstar 30672, 30690, 30699, 30713, 30271, 30690, 30699, 30713, 31227 Rocksonic 30789
Radionette 30741, 30869, 31906, 32024 RadioShack 30571 Raite 30665 Raite 30522, 30571, 30717, 30790, 30822, 31022, 31132, 31769, 31913, 31965 Realistic 30571 Realistic 30571 Rec 30490 Redstar 30589, 31345, 31923 Relisys 31347 Reoc 30752, 30768 Revoy 30699, 30841 Rex 30838 Richmond 31233 Rio 30672, 30690, 30699, 30713, 30730, 30838, 31051, 31227 Roadstar 30730, 30833, 30898, 31051, 31227 Rocksonic 30789
RadioShack 30571 Ratic 30665 Ratic 30522, 30571, 30717, 30790, 30822, 31022, 31132, 31769, 31913, 31965 Realistic 30571 Recl 30571 Recl 30571 Recl 30571 Recl 30571 Recl 30571 Recl 30751, 30763, 30770, 30788, 30898, 31345, 31923 Relisys 31347 Reoc 30752, 30768 Revoy 30699, 30841 Rex 30838 Richmond 31233 Rio 30672, 30690, 30699, 30713, 30672, 30690, 30699, 30713, 31227 Rocksonic 30730, 30833, 30898, 31051,
Raite 30665 RCA 30522, 30571, 30717, 30790, 30822, 31022, 31132, 31769, 31913, 31965 Realistic 30571 REC 30490 Redstar 30759, 30763, 30770, 30788, 30898, 31345, 31923 Relisys 31347 Reoc 30752, 30768 Revoy 30699, 30841 Rex 30838 Richmond 31233 Rio 30672, 30690, 30699, 30713, 30672, 30690, 30699, 30713, 31227 Rocksonic 30730, 30833, 30898, 31051,
RCA 30522, 30571, 30717, 30790, 30822, 31022, 31132, 31769, 31913, 31965 Realistic 30571 REC 30490 Redstar 30759, 30763, 30770, 30788, 30898, 31345, 31923 Relisys 31347 Reoc 30752, 30768 Revoy 30699, 30841 Rex 30838 Richmond 31233 Rio 30672, 30690, 30699, 30713, 30672, 30690, 30699, 30713, 31227 Roadstar 30730, 30833, 30898, 31051, 31227 Rocksonic 30789
RCA 30822, 31022, 31132, 31769, 31913, 31965 Realistic 30571 REC 30490 Redstar 30759, 30763, 30770, 30788, 30898, 31345, 31923 Relisys 31347 Reoc 30752, 30768 Revoy 30699, 30841 Rex 30838 Richmond 31233 Rio 30672, 30690, 30699, 30713, 30672, 30690, 30699, 30713, 31227 Rocksonic 30730, 30833, 30898, 31051, 31227
31913, 31965 Realistic 30571 REC 30490 Redstar 30759, 30763, 30770, 30788, 30898, 31345, 31923 Relisys 31347 Reoc 30752, 30768 Revoy 30699, 30841 Rex 30838 Richmond 31233 Rio 30672, 30690, 30699, 30713, 30672, 30690, 30699, 30713, 31227 Rocksonic 30730, 30833, 30898, 31051, 31227
REC 30490 Redstar 30759, 30763, 30770, 30788, 30898, 31345, 31923 Relisys 31347 Reoc 30752, 30768 Revoy 30699, 30841 Rex 30838 Richmond 31233 Rio 30672, 30690, 30699, 30713, 30672, 30690, 30699, 30713, 31227 Roadstar 30730, 30833, 30898, 31051, 31227 Rocksonic 30789
Redstar 30759, 30763, 30770, 30788, 30898, 31345, 31923 Relisys 31347 Reoc 30752, 30768 Revoy 30699, 30841 Rex 30838 Richmond 31233 Rio 30672, 30690, 30699, 30713, 30672, 30690, 30699, 30713, 31227 Roadstar 30730, 30833, 30898, 31051, 31227 Rocksonic 30730, 30789
Neustal 30898, 31345, 31923 Relisys 31347 Reoc 30752, 30768 Revoy 30699, 30841 Rex 30838 Richmond 31233 Rio 30672, 30690, 30699, 30713, 30672, 30690, 30699, 30713, 31227 Rocksonic 30730, 30833, 30898, 31051, 31227
Relisys 31347 Reoc 30752, 30768 Revoy 30699, 30841 Rex 30838 Richmond 31233 Rio 30699, 30699, 30713, 30672, 30690, 30699, 30713, 31227 Roadstar 30730, 30833, 30898, 31051, 31227 Rocksonic 30789
Reoc 30752, 30768 Revoy 30699, 30841 Rex 30838 Richmond 31233 Rio 30869 30672, 30690, 30699, 30713, Roadstar 30723, 30690, 30699, 30713, 31227 Rocksonic 30789
Revoy 30699, 30841 Rex 30838 Richmond 31233 Rio 30869 30672, 30690, 30699, 30713, 30730, 30833, 30898, 31051, 31227 Rocksonic 30789
Rex 30838 Richmond 31233 Rio 30869 30672, 30690, 30699, 30713, 30730, 30833, 30898, 31051, 31227 Rocksonic 30789
Richmond 31233 Rio 30869 30672, 30690, 30699, 30713, 30730, 30833, 30898, 31051, 31227 Rocksonic 30789
Rio 30869 30672, 30690, 30699, 30713, Roadstar 30730, 30833, 30898, 31051, 31227 Rocksonic 30789
Roadstar 30672, 30690, 30699, 30713, 30730, 30833, 30898, 31051, 31227 Rocksonic 30789
Roadstar 30730, 30833, 30898, 31051, 31227 Rocksonic 30789
Bonin 30872
101111 JU072
Rotel 30558, 30623
Rowa 30717, 30759, 30872, 31004
Rownsonic 30789
Rownsonic 30789 Saba 30651, 3055

Salora	30741
Sampo	30752, 31321, 31347
Samsung	30490, 30573, 30744, 30199, 30820, 30899, 31044, 31075, 31635, 31932
Sansui	30784, 30695, 30751, 30763, 30768, 31051, 31228, 31230, 31695, 31832
Sanyo	30670, 30675, 30695, 30713, 30873, 31228
Scan	30705, 30850
ScanMagic	30730, 31730
ScanSonic	31695
Schaub Lorenz	30770, 30788, 31115, 31151
Schneider	30539, 30646, 30651, 30705, 30713, 30774, 30783, 30788, 30790, 30831, 30869, 31367
Schwaiger	30752
Scientific Labs	30768
Scott	30672, 30651, 31005, 31036, 31233, 31423
Seeltech	31224, 31451
SEG	30798, 30665, 30713, 30763, 30872, 30884, 31483, 31530
Sensory Science	31158
Shanghai	30672
Sharp	30630, 30675, 30713, 30752, 31256, 32015, 32024
Sharper Image	31117
Sherwood	30717, 30741, 30770
Shinco	30717
Shinsonic	30533, 30839
Siemssen	31382
Sigmatek	31005, 31224
Siltex	31224
Silva	30788, 30898
Silva Schneider	30831, 30898
SilverCrest	31152
Simaudio	30885
Singer	30690, 30751, 30768
Sistemas Skantic	30672
Skymaster	30539, 30713 30730, 30768
Skyworth	30898
Skyworth	31115
Slim Art	30784
SM Electronic	30690, 30730, 30768, 31152
Smart	30705, 30713
Sonai	30755
Sonashi	30831
Sonic Blue	30573, 30715, 30783, 30869, 31099
Sony	30533, 31533, 30864, 30573, 30630, 30772, 31033, 31070, 31431, 31433, 31536, 31633, 31769, 31981, 32043
Sound Color	31233
Soundmaster	30768

Soundmax30768Soundwave30783Spectra30872Standard30651, 30768, 30788, 30831, 30898Star Clusters31152, 31227Starlogic31005, 31224Stevison31367Strong30770, 30850Sunkai30770, 30850Sunstech30831Sunwood30788, 30898Superscan30621, 30713, 3162Sylvania30630, 30675, 30821, 31268Synn30678, 30821, 31268Synn30678, 30821, 31268Synn30678, 30821, 31268Synn30770, 31695Tandberg30771, 30752, 31105Sylvania30637, 30871, 30771, 30752, 30741, 31227Tatung30771, 30753, 30741, 30754, 30741, 30790Tec30898Technica31367, 31695Teck30571, 30717, 3075, 30741, 30759, 30768, 30790, 30833, 31006, 31197, 31227Tec30898Technica31367, 31695Technica31367, 31695Technica31367, 31695Technica31367, 31695Technica30770, 30831, 31115, 31695Technica30730, 31051, 31115Technica30730, 31051, 31115Technica30730, 31051, 31115Technica30730, 31051, 31115Technica30730, 30783, 31483, 31730, 31823Telefunken31832, 31923Teletech30731, 30768Tensai30651, 30780, 30783, 31483, 31730, 31823Telefunken31623, 31924Tivo31503		
Spectra 30872 Standard 30651, 30768, 30788, 30831, 30898 Star Clusters 31152, 31227 Starlogic 31005 Starmedia 31005, 31224 Sterison 31367 Strong 30713 Sunkai 30770, 30850 Sunstech 30831 Sunwood 30788, 30898 Supervision 30672, 30717, 30752, 31105 Sylvania 30672, 30717, 30752, 31105 Sylvania 30667, 30821, 31268 Symphonic 30675, 30821, 31268 Symphonic 30675, 30821, 31268 Synn 30768 Tandberg 30713, 31695 Tardug 30770, 31695 Tardug 307741 TCL 31180 TCM 30741, 30790 Teac 30571, 30717, 30675, 30741, Teac 30573, 30768, 30790, 30833, 31493 Technica 31367, 31695 Technica 31367, 31695 Technica 30770, 30831, 31115, 31695 Technica 30	Soundmax	30768
Standard 30651, 30768, 30788, 30831, 30898 Star Clusters 31152, 31227 Starlogic 31005 Starnedia 31005, 31224 Stevison 31367 Strong 30713 Sunkai 30770, 30850 Sunstech 30831 Sunwood 30788, 30898 Superscan 30621, 3152 SVA 30672, 30717, 30752, 31105 Sylvania 30630, 30675, 30821, 31268 Symphonic 30675, 30821, 31268 Synn 30768 Tandberg 30713, 31695 Tandperg 30770, 31695 Tandperg 30771, 30757, 30741 TCL 31180 TCM 30741, 30790 Teac 30571, 30717, 30675, 30741, 30759, 30768, 30790, 30833, 31493 Technica 31367, 31695 Technica 31367, 31695 Technica 31367, 31695 Technica 30770, 30831, 31115, 31695 Technica 30770, 30831, 31115, 31695 Technika 30770, 30831, 31115, 31695	Soundwave	30783
Statulard 30898 Star Clusters 31152, 31227 Starlogic 31005, 31224 Starnedia 31005, 31224 Stevison 31367 Strong 30713 Sunkai 30770, 30850 Sunstech 30831 Sunwood 30788, 30898 Superscan 30821 Symphonic 30672, 30717, 30752, 31105 Sylvania 30630, 30675, 30821, 31268 Symphonic 30675, 30821, 31268 Symphonic 30675, 30821, 31268 Symphonic 30675, 30821, 31268 Synn 30768 Tandberg 30713, 31695 Tatung 30771, 31695 Tatung 30771, 30717, 30675, 30741, Tec 30898 Technica 31367, 31695 Technica 31367, 31695 Technica 31367, 31695 Technica 3167, 31695 Technica 30770, 30831, 31115, 31695 Technica 30770, 30831, 31115, 31695 Technica 30770, 308	Spectra	
Starlogic 31005 Starlogic 31005, 31224 Stevison 31367 Strong 30713 Sunkai 30770, 30850 Sunstech 30831 Sunwood 30788, 30898 Supervision 30672, 30717, 30752, 31105 Sylvania 30630, 30675, 30821, 31268 Synphonic 30678, 31695 Tangent 31321 Targa 31227 Tatung 30771, 30752, 30741, TCL 31180 TCL 31180 TCL 31180 TCL 31180 TCL 31180 TCL 31180 TCM 30741, 30790 Teac 30571, 30717, 30675, 30741, Teac 30573, 30768, 30730, 30833, Technica 31367, 31695 Technica 31367, 31695 Technica 30770, 30831, 31115, 31695 Technica 30703, 31051, 31115 Technosonic 30730, 31051, 31115 Techonsonic 3073		
Starmedia 31005, 31224 Stevison 31367 Strong 30713 Sunkai 30770, 30850 Sunstech 30831 Sunwood 30788, 30898 Supervision 30768, 31152 SVA 30672, 30717, 30752, 31105 Sylvania 30630, 30675, 30821, 31268 Symphonic 30675, 30821, 31268 Synn 30768 Tandberg 30713, 31695 Tangent 31321 Targa 31227 Tatung 30770, 31695 Tchibo 30741 TCL 31180 TCM 30751, 30717, 30675, 30741, Teac 30571, 30776, 30783, Technica 31367, 31695 Technica 31367, 31695 Technica 30703, 31051, 31115 Technica 30770, 30831, 31115, 31695 Technica 30703, 31051, 31115 Technica 30789, 30790, 30833, 31483, 31780 Technica 30789, 30790, 30833, 31483, 31782 Teletenk 30789,	Star Clusters	31152, 31227
Stevison 31367 Strong 30713 Sunkai 30770, 30850 Sunstech 30831 Sunwood 30788, 30898 Superscan 30821 Supervision 30768, 31152 SVA 30672, 30717, 30752, 31105 Sylvania 30630, 30675, 30821, 31268 Symphonic 30675, 30821, 31268 Synn 30768 Tandberg 30713, 31695 Tangent 31321 Targa 31227 Tatung 30770, 31695 Tchibo 30741, 30790 TCL 31180 TCM 30751, 30717, 30675, 30741, 30759, 307843, 31006, 31197, 31227 Teac 30571, 3077, 31695 Technica 31367, 31695 Technica 31367, 31695 Technica 31367, 31695 Technica 30703, 31051, 31115 Techosonic 30730, 31051, 31115 Technosonic 30730, 30703, 31905 Technika 30770, 30831, 31115, 31695 Techension 3	Starlogic	31005
Strong 30713 Sunkai 30770, 30850 Sunstech 30831 Sunwood 30788, 30898 Superscan 30821 Supervision 30768, 31152 SVA 30672, 30717, 30752, 31105 Sylvania 30630, 30675, 30821, 31268 Symphonic 30675, 30821, 31268 Synn 30768 Tandberg 30713, 31695 Tangent 31321 Targa 31227 Tatung 30771, 30752, 30741, TCL 31180 TCM 30741, 30790 Teac 30571, 3077, 30675, 30741, Teac 30573, 30768, 30790, 30833, 31006, 31197, 31227 Teac 30898 Technica 31367, 31695 Technica 31367, 31695 Technica 30703, 301051, 31115 Technica 30770, 30831, 31115, 31695 Technica 30770, 30831, 31115, 31695 Technica 30730, 31051, 31115 Technosonic 30730, 31051, 31115 Technosonic	Starmedia	31005, 31224
Sunkai 30770, 30850 Sunstech 30831 Sunwood 30788, 30898 Superscan 30821 Supervision 30768, 31152 SVA 30672, 30717, 30752, 31105 Sylvania 30630, 30675, 30821, 31268 Symphonic 30675, 30821, 31268 Synn 30768 Tandberg 30713, 31695 Tangent 31221 Targa 31227 Tatung 30771, 3077, 31695 Tchibo 30741, 30790 TCL 31180 TCM 30751, 30717, 30675, 30741, 30759, 30764, 30759, 30758, 30764, 30759, 30758, 30768, 30790, 30833, 31006, 31197, 31227 Teac 30571, 3077, 30675, 30741, 30759, 30764, 31025 Technica 31367, 31695 Technica 31367, 31695 Technica 3070, 30831, 31115, 31695 Technica 30770, 30871, 31115 Technosonic 30730, 31051, 31115 Technosonic 30789, 30768, 31004, 31228 Telefunken 31822, 31923 Teletech 30789, 30790, 30833, 31483, 31730, 3192	Stevison	31367
Sunstech 30831 Sunstech 30831 Sunwood 30788, 30898 Superscan 30821 Supervision 30768, 31152 SVA 30672, 30717, 30752, 31105 Sylvania 30630, 30675, 30821, 31268 Symphonic 30675, 30821, 31268 Symphonic 30675, 30821, 31268 Synn 30768 Tangent 31321 Targa 31227 Tatung 30770, 31695 Tchibo 30741 TCL 31180 TCM 30751, 30717, 30675, 30741, Teac 30574, 30790, 30833, 31006, 31197, 31227 Tec 30898 Technica 31367, 31695 Technica 31367, 31695 Technica 31367, 31695 Technica 30703, 30703, 31905 Technica 30770, 30831, 31115, 31695 Technica 30703, 31051, 31115 Techosonic 30730, 30703, 31004, 31228 Telefunken 30789, 30790, 30833, 31483, 31790, 31832, 31923 T	Strong	30713
Sunwood 30788, 30898 Superscan 30821 Supervision 30768, 31152 SVA 30672, 30717, 30752, 31105 Sylvania 30630, 30675, 30821, 31268 Symphonic 30675, 30821, 31268 Synn 30768 Tandberg 30713, 31695 Tangent 31321 Targa 31227 Tatung 30770, 31695 Tchibo 30741 TCL 31180 TCM 30751, 30717, 30755, 30741, Teac 30571, 30717, 30755, 30741, Teac 30573, 30768, 30790, 30833, Tec 30898 Technica 31367, 31695 Technica 31367, 31695 Technica 30770, 30831, 31115, 31695 Technica 30770, 30831, 31115, 31695 Technica 30730, 31051, 31115 Techosonic 30730, 31051, 31115 Technosonic 30730, 30703, 30833, 31483, 31730, 31822 Telefunken 31832, 31923 Teletech 30713, 31530 T	Sunkai	30770, 30850
Superscan 30821 Supervision 30768, 31152 SVA 30672, 30717, 30752, 31105 Sylvania 30630, 30675, 30821, 31268 Symphonic 30675, 30821, 31268 Synn 30768 Tandberg 30713, 31695 Tangent 31321 Targa 31227 Tatung 30770, 31695 Tchibo 30741 TCL 31180 TCM 30751, 30717, 30675, 30741, Teac 30571, 30717, 30675, 30741, Teac 30574, 30790 Teac 30574, 30790, 30833, 31197, 31227 Teac 30898 Technica 31367, 31695 Technica 31367, 31695 Technica 30700, 30831, 31115, 31695 Technica 30770, 30831, 31115 Techosonic 30730, 31051, 31115 Technosonic 30730, 31051, 31115 Techosonic 30789, 30790, 30833, 31483, 31730, 31923 Telefunken 31832, 31923 Telefunken 30651, 30788, 30768, 30833, 31483, 31730, 31923 </td <td>Sunstech</td> <td>30831</td>	Sunstech	30831
Supervision 30768, 31152 SVA 30672, 30717, 30752, 31105 Sylvania 30630, 30675, 30821, 31268 Symphonic 30675, 30821, 31268 Synn 30768 Tandberg 30713, 31695 Tangent 31321 Targa 31227 Tatung 30770, 31695 Tchibo 30741 TCL 31180 TCM 30751, 30717, 30675, 30741, Teac 30571, 30775, 30743, 30759, 307433, 30759, 30768, 30790, 30833, 31006, 31197, 31227 Teac 30571, 3077, 30675, 30741, Teac 30571, 30775, 30741, 30755, 30741, Teac 30571, 30775, 30741, Teac 30571, 3077, 30675, 30741, Teac 30571, 30776, 30780, 30780, 30833, Technica 31367, 31695 Technica 31367, 31695 Technica 30770, 30831, 31115, 31695 Technica 30703, 31051, 31115 Technosonic 30730, 31051, 31115 Technosonic 30789, 30790, 30833, 31483, 31792, 31923 Teletech 30783, 30790, 30	Sunwood	30788, 30898
SVA 30672, 30717, 30752, 31105 Sylvania 30630, 30675, 30821, 31268 Symphonic 30675, 30821, 31268 Synn 30768 Tandberg 30713, 31695 Tangent 31321 Targa 31227 Tatung 30770, 31695 Tchibo 30741 TCL 31180 TCM 30571, 30717, 30675, 30741, Teac 30573, 30768, 30790, 30833, 31006, 31197, 31227 Teac 30574, 30779, 30675, 30741, Teac 30574, 30779, 30755, 30741, Teac 30574, 30779, 30755, 30741, Teac 30574, 30779, 30831, 31127, 31227 Tec 30898 Technica 31367, 31695 Technica 31367, 31695 Technica 30770, 30831, 31115, 31695 Technixa 30770, 30831, 31115 Technosonic 30730, 31051, 31115 Technosonic 30789, 30790, 30833, 31483, 31730, 31923 Teletech 30713, 31530 Teletech 30713, 30768 Tensai 3065	Superscan	30821
Sylvania 30630, 30675, 30821, 31268 Symphonic 30675, 30821, 31268 Synn 30768 Tandberg 30713, 31695 Tangent 31321 Targa 31227 Tatung 30770, 31695 Tchibo 30741 TCL 31180 TCM 30741, 30790 Teac 30571, 30717, 30675, 30741, 30759, 30768, 30790, 30833, 31006, 31197, 31227 Teac 30571, 30717, 30675, 30741, 1066, 31197, 31227 Teac 30571, 30779, 3068, 30790, 30833, 31407, 31227 Tec 30898 Technica 31367, 31695 Technica 31367, 31695 Technica 30700, 30831, 31115, 31695 Technixa 30770, 30831, 31115, 31695 Technixa 30770, 30831, 31115 Techosonic 30730, 31051, 31115 Techwood 30713, 31530 Tedelex 30690, 30768, 31004, 31228 Telefunken 31832, 31923 Teletech 30713, 31530 Tensai 306571, 30798, 30768, 30833, 7490, 30893, 31056, 31227, 31347, 31382	Supervision	30768, 31152
Symphonic 30675, 30821, 31268 Synn 30768 Tandberg 30713, 31695 Tangent 31321 Targa 31227 Tatung 30770, 31695 Tchibo 30741 TCL 31180 TCM 30779, 3075, 30741, 30790 Teac 30571, 30717, 30675, 30741, 30759, 30768, 30790, 30833, 31006, 31197, 31227 Teac 30571, 30717, 30675, 30741, 1066, 31197, 31227 Teac 30571, 30717, 30675, 30741, 1066, 31197, 31227 Tec 30898 Technica 31367, 31695 Technica 31367, 31695 Technica 30700, 30831, 31115, 31695 Technica 30770, 30831, 31115, 31695 Technika 30770, 30831, 31115 Techosonic 30730, 31051, 31115 Techwood 30713, 31530 Tedelex 30690, 30768, 31004, 31228 Telefunken 31832, 31923 Teletech 30713, 30768 Tensai 30651, 30798, 30768, 30833, 1923 Teka Digital 30571 Tho	SVA	30672, 30717, 30752, 31105
Synn 30768 Tandberg 30713, 31695 Tangent 31321 Targa 31227 Tatung 30770, 31695 Tchibo 30741 TCL 31180 TCM 30571, 30717, 30675, 30741, 30759, 30768, 30790, 30833, 30571, 30717, 30675, 30741, Teac Teac 30571, 30717, 30675, 30741, 30759, 30768, 30790, 30833, 31106, 31197, 31227 Tec 30898 Technica 31367, 31695 Technica 31367, 31695 Technica 30770, 30831, 31115, 31695 Technisson 31115 Technosonic 30730, 31051, 31115 Techwood 30713, 31530 Tedelex 30690, 30768, 31004, 31228 Telefunken 31832, 31923 Teletech 30713, 30768 Tensai 30651, 30798, 30768, 30833, 31483, 31730, 31923 Theta Digital 30571 Thomson 30522, 30511, 30551 Tivo 31503 Tokai 30789, 30655, 30788, 30790, 30898, 30790, 30898, 30790, 30898 Tokai 30784, 30665, 30788, 30790,	Sylvania	30630, 30675, 30821, 31268
Tandberg 30713, 31695 Tangent 31321 Targa 31227 Tatung 30770, 31695 Tchibo 30741 TCL 31180 TCM 30741, 30790 Teac 30571, 30717, 30675, 30741, 30759, 30768, 30790, 30833, 30759, 30768, 30790, 30833, 31207 Teac 30898 Technica 31367, 31695 Technica 31367, 31695 Technica 30770, 30831, 31115, 31695 Technica 30703, 31051, 31115 Technosonic 30730, 31051, 31115 Techwood 30713, 31530 Tedelex 30690, 30768, 31004, 31228 Telefunken 31832, 31923 Teletech 30713, 31530 Tedelex 30690, 30768, 31004, 31228 Telefunken 30789, 30790, 30833, 31483, 31832, 31923 Teletech 30713, 31530 Tevion 30651, 30798, 30768, 30833, 7090, 30833, 7090, 30833, 7149, 31503, 31747, 31382, 31483, 31730, 31923 Theta Digital 30571 Thomson 30522, 30511, 30551 Tivo 31503<	Symphonic	30675, 30821, 31268
Tangent 31321 Targa 31227 Tatung 30770, 31695 Tchibo 30741 TCL 31180 TCM 30759, 30768, 30790, 30833, 31055, 30741, 30759, 300768, 30790, 30833, 31006, 31197, 31227 Teac 30571, 30717, 30675, 30741, 30759, 300768, 30790, 30833, 31006, 31197, 31227 Teac 30898 Technica 31367, 31695 Technica 31367, 31695 Technica 30770, 30831, 31115, 31695 Technixa 30770, 30831, 31115 Techosonic 30730, 31051, 31115 Techwood 30713, 31530 Tedelex 30690, 30768, 31004, 31228 Telefunken 31827, 31923 Teletech 30713, 30680, 30770 Tensai 30651, 30690, 30770 Sob51, 30788, 30768, 30833, 730, 31923 Theta Digital 30571 Thomson 30522, 30511, 30551 Tivo 31503 </td <td>Synn</td> <td>30768</td>	Synn	30768
Targa 31227 Tarung 30770, 31695 Tchibo 30741 TCL 31180 TCM 30741, 30790 Teac 30571, 30717, 30675, 30741, 30759, 30768, 30790, 30833, 31006, 31197, 31227 Tec 30898 Technica 31367, 31695 Technica 30770, 30831, 31115, 31695 Technica 30770, 30831, 31115, 31695 Technica 30730, 31051, 31115 Technosonic 30730, 31051, 31115 Technosonic 30730, 30768, 31004, 31228 Telefunken 30789, 30790, 30833, 31483, 31832, 31923 Teletech 30713, 30768 Tensai 30651, 30690, 30770 Sob51, 30788, 30768, 30833, 10858, 31036, 31227, 31347, 31382, 31483, 31730, 31923 Theta Digital 30571 Thomson 30522, 30511, 30551 Tivo 31503 Tokai 30784, 30665, 30788, 30790, 30898 Tokai 30784, 30665, 30788, 30790, 30898 Tokai 30533, 305	Tandberg	30713, 31695
Tatung 30770, 31695 Tatung 30770, 31695 Tchibo 30741 TCL 31180 TCM 30741, 30790 Teac 30571, 30717, 30675, 30741, 30759, 30768, 30790, 30833, 31006, 31197, 31227 Tec 30898 Technica 31367, 31695 Technica 30770, 30831, 31115, 31695 Technika 30770, 30831, 31115, 31695 Technisson 31115 Technosonic 30730, 31051, 31115 Techwood 30713, 31530 Telefunken 30789, 30790, 30833, 31483, 31832, 31923 Telefunken 30789, 30790, 30833, 31483, 31832, 31923 Teletech 30713, 30768 Tensai 30651, 30690, 30770 Tensai 30651, 30690, 30770 Theta Digital 30571 Thomson 30522, 30511, 30551 Tivo 31503 Tow 30784, 30665, 30788, 30790, 30898 Tokai 30789, 30573, 30539, 30695, 30533, 30573, 30539, 30695, 30533, 30573, 30539, 30695, 31045, 31154, 31503, 31510, 31769	Tangent	31321
Tchibo 30741 TCL 31180 TCM 30741, 30790 Teac 30571, 30717, 30675, 30741, 30759, 30768, 30790, 30833, 30759, 30768, 30790, 30833, 31006, 31197, 31227 Tec 30898 Technica 31367, 31695 Technics 30490, 30703, 31905 Technica 3115 Technisson 31115 Technosonic 30730, 31051, 31115 Techwood 30713, 31530 Tedelex 30690, 30768, 31004, 31228 Telefunken 30789, 30790, 30833, 31483, 31832, 31923 Teletech 30713, 30768 Tensai 30651, 30798, 30768, 30833, 70898, 31036, 31227, 31347, 31382, 31483, 31730, 31923 Theta Digital 30571 Thomson 30522, 30511, 30551 Tivo 31503 Tokai 30784, 30665, 30788, 30790, 30898 Tokai 30789, 30789, 30533, 30533, 30533, 30593, 30695, 31045, 31154, 31503, 31510, 31045, 3154, 31503, 31510,	Targa	31227
TCL 31180 TCL 31180 TCM 30741, 30790 TCM 30741, 30790 Teac 30571, 30717, 30675, 30741, 30759, 30768, 30790, 30833, 31006, 31197, 31227 Tec 30898 Technica 31367, 31695 Technica 31367, 31695 Technica 30770, 30831, 31115, 31695 Technisson 31115 Technosonic 30730, 31051, 31115 Techwood 30713, 31530 Tedelex 30690, 30768, 31004, 31228 Telefunken 3182, 31923 Teletech 30713, 30768 Tensai 30651, 30690, 30770 30651, 30788, 30768, 30833, 1483, 31730, 31923 Theta Digital 30571 Thomson 30522, 30511, 30551 Tivo 31503 Towai 30789, 30789, 30788, 30790, 30898, 30790, 30898 Tokai 30784, 30665, 30788, 30790, 30895, 30895, 30898, 31024, 31503, 31504, 31769	Tatung	30770, 31695
TCM 30741, 30790 Teac 30571, 30717, 30675, 30741, 30759, 30768, 30790, 30833, 31006, 31197, 31227 Tec 30898 Technica 31367, 31695 Technica 31367, 31695 Technica 30770, 30831, 31115, 31695 Technica 30770, 30831, 31115, 31695 Technisson 31115 Technosonic 30730, 31051, 31115 Techwood 30713, 31530 Tedelex 30690, 30768, 31004, 31228 Telefunken 31827, 31923 Telefunken 30789, 30790, 30833, 31483, 31832, 31923 Teletech 30713, 30768 Tensai 30651, 30690, 30770 30651, 30788, 30768, 30833, 1923 Tevion 30522, 30511, 30551 Tivo 31503 Towa 30784, 30665, 30788, 30790, 30898 Tokai 30789, 30573, 30539, 30695, 30898 Tokai 30789, 30573, 30539, 30695, 31045, 31154, 31503, 31510, 31769	Tchibo	30741
30571, 30717, 30675, 30741, Teac 30571, 30717, 30675, 30741, 3059, 30768, 30790, 30833, 31006, 31197, 31227 3058 Technica 31367, 31695 Technica 3167, 31695 Technics 30490, 30703, 31905 Technics 30490, 30703, 31905 Technics 30490, 30703, 31905 Technics 30490, 30703, 31905 Technics 30770, 30831, 31115, 31695 Technosonic 30730, 31051, 31115 Technosonic 30730, 30768, 31004, 31228 Telefunken 30789, 30790, 30833, 31483, 31822, 31923 Teletech 30713, 30768 Tensai 30651, 30690, 30770 30651, 30789, 30768, 30833, 1483, 31730, 31923 Theta Digital 30571 Thomson 30522, 30511, 30551 Tivo 31503 Tokai 30789, 30779, 30655, 30788, 30790, 30898 Tokai 30789 Top Suxess 31224 Top Suxess 31224 Toshiba 31045, 3154, 31503, 31510, 31769	TCL	31180
31006, 31197, 31227 Tec 30898 Technica 31367, 31695 Technics 30490, 30703, 31905 Technics 30490, 30703, 31905 Technika 30770, 30831, 31115, 31695 Technisson 31115 Technosonic 30730, 31051, 31115 Techwood 30713, 31530 Tedelex 30690, 30768, 31004, 31228 Telefunken 30789, 30790, 30833, 31483, 31822, 31923 Teletech 30713, 30768 Tevion 30651, 30690, 30770 Stage, 31026, 31227, 31347, 31382, 31483, 31730, 31923 Tevion 30551, 30798, 30768, 30833, 31483, 31382, 31483, 31730, 31923 Tevion 305571 Thomson 30522, 30511, 30551 Tivo 31503 Tokai 30784, 30665, 30788, 30790, 30898 Tokai 30789, 30573, 30539, 30695, 30789, 30695, 30789, 30695, 30789, 30790, 30898 Top Suxess 31224 Toshiba 31045, 31154, 31503, 31510, 31769	TCM	30741, 30790
Technica 31367, 31695 Technics 30490, 30703, 31905 Technika 30770, 30831, 31115, 31695 Technisson 31115 Technosonic 30730, 31051, 31115 Technosonic 30730, 31051, 31115 Techwood 30713, 31530 Tedelex 30690, 30768, 31004, 31228 Telefunken 31832, 31923 Teletech 30713, 30768 Tensai 30651, 30690, 30770 Tensai 30651, 30788, 30768, 30833, 31483, 31730, 31923 Theta Digital 30571 Thomson 30522 Tokai 30784, 30665, 30788, 30790, 30898 Tokai 30784, 30665, 30788, 30790, 30898 Top Suxess 31224 Toshiba 31523, 3154, 31503, 31510, 31769	Теас	30571, 30717, 30675, 30741, 30759, 30768, 30790, 30833, 31006, 31197, 31227
Technics 30490, 30703, 31905 Technika 30770, 30831, 31115, 31695 Technisson 31115 Technosonic 30730, 31051, 31115 Technosonic 30730, 31051, 31115 Techwood 30713, 31530 Tedelex 30690, 30768, 31004, 31228 Telefunken 31832, 31923 Teletech 30713, 30768 Tensai 30651, 30690, 30770 30651, 30788, 30768, 30833, 13443, 31730, 31923 Tekta Digital 30571 Thomson 30522, 30511, 30551 Tokai 30784, 30665, 30788, 30790, 30898 Tokai 30784, 30665, 30788, 30790, 30898 Top Suxess 31224 Toshiba 31024, 31503, 31503, 31503, 31504, 31769	Тес	30898
Technika 30770, 30831, 31115, 31695 Technisson 31115 Technosonic 30730, 31051, 31115 Techwood 30713, 31530 Tedelex 30690, 30768, 31004, 31228 Telefunken 3782, 31923 Teletech 30713, 30768 Tensai 30651, 30690, 30770 30651, 30789, 30768, 30833, 13483, 31730, 31923 Tevion 30651, 30789, 30768, 30833, 1347, 31382, 31483, 31730, 31923 Theta Digital 30571 Thomson 30522, 30511, 30551 Tivo 31503 Towai 30789, 30665, 30788, 30790, 30898 Towai 30789 Top Suxess 31224 Toshiba 31045, 3154, 31503, 31510, 31769	Technica	31367, 31695
Technisson 31115 Technosonic 30730, 31051, 31115 Techwood 30713, 31530 Tedelex 30690, 30768, 31004, 31228 Telefunken 31832, 31923 Teletech 30713, 30768 Tensai 30651, 30690, 30770 Tensai 30651, 30798, 30768, 30833, 1483, 31730, 31923 Tekta Digital 30571 Thomson 30522, 30511, 30551 Tivo 31503 Tokai 30789, 30655, 30788, 30790, 30898 Top Suxess 31224 Top Suxess 31224 Toshiba 31045, 31154, 31503, 31510, 31769	Technics	30490, 30703, 31905
Technosonic 30730, 31051, 31115 Techwood 30713, 31530 Tedelex 30690, 30768, 31004, 31228 Telefunken 31832, 31923 Teletech 30713, 30768 Tensai 30651, 30690, 30770 Tevion 30651, 30690, 30770 Teletach 30731, 30768 Tevion 30651, 30690, 30770 Tevion 30651, 30788, 30786, 30833, 31483, 31230, 31923 Theta Digital 30571 Thomson 30522, 30511, 30551 Tivo 31503 Toward 30784, 30665, 30788, 30790, 30898 Tom-Tec 30789 Top Suxess 31224 Toshiba 30503, 30573, 30539, 30695, 31045, 31503, 31510, 31769	Technika	30770, 30831, 31115, 31695
Techwood 30713, 31530 Tedelex 30690, 30768, 31004, 31228 Telefunken 30789, 30790, 30833, 31483, 31832, 31923 Teletech 30713, 30768 Tensai 30651, 30690, 30770 Tevion 30651, 30788, 30788, 30833, 31483, 31327, 31347, 31382, 31483, 31730, 31923 Teket Digital 30571 Thomson 30522, 30511, 30551 Tivo 31503 Tom-Tec 30789, 30789, 30790, 30898, 310245, 31503, 31524, 31503, 31510, 31769	Technisson	31115
Tedelex 30690, 30768, 31004, 31228 Telefunken 30789, 30790, 30833, 31483, 31832, 31923 Teletech 30713, 30768 Tensai 30651, 30690, 30770 Tevion 30651, 30798, 30768, 30833, 31483, 30898, 31036, 31227, 31347, 31382, 31483, 31730, 31923 Theta Digital 30571 Thomson 30522, 30511, 30551 Tivo 31503 Toward 30784, 30665, 30788, 30790, 30898 Tom-Tec 30789 Top Suxess 31224 Subshiba 31053, 30573, 30539, 30695, 31045, 31503, 31510, 31769	Technosonic	30730, 31051, 31115
Telefunken 30789, 30790, 30833, 31483, 31832, 31923 Teletech 30713, 30768 Tensai 30651, 30690, 30770 Tevion 30651, 30798, 30768, 30833, 30898, 31036, 31227, 31347, 31382, 31483, 31730, 31923 Theta Digital 30571 Thomson 30522, 30511, 30551 Tivo 31503 Tokai 30784, 30665, 30788, 30790, 30898 Tom-Tec 30789 Top Suxess 31224 S0503, 30573, 30539, 30695, 31045, 31154, 31503, 31510, 31769	Techwood	30713, 31530
Telefulnen 31832, 31923 Teletech 30713, 30768 Tensai 30651, 30690, 30770 Steven 30651, 30788, 30788, 30833, 30583, 30788, 30788, 30368, 31227, 31347, 31382, 31483, 31730, 31923 Tevion 30551, 30798, 30768, 30833, 31322, 31342, 31342, 31342, 31342, 31483, 31730, 31923 Theta Digital 30571 Thomson 30522, 30511, 30551 Tivo 31503 Tokai 30784, 30665, 30788, 30790, 30898 Tom-Tec 30789 Top Suxess 31224 S0503, 30573, 30539, 30695, 30784, 31503, 31510, 31769	Tedelex	
Tensai 30651, 30690, 30770 Tevion 30651, 30798, 30768, 30833, 30898, 31036, 31227, 31347, 31382, 31483, 31730, 31923 Theta Digital 30571 Thomson 30522, 30511, 30551 Tivo 31503 Tokai 30789, 30768, 30790, 30898 Top Suxess 31224 Toshiba 31024, 30573, 30539, 30695, 30790, 30533, 30573, 30539, 30695, 30789, 30790, 31244	Telefunken	
Total 30651, 30788, 30768, 30833, 30658, 30768, 30833, 30898, 31036, 31227, 31347, 31382, 31438, 31730, 31923 Theta Digital 30571 Thomson 30522, 30511, 30551 Tivo 31503 Tokai 30784, 30665, 30788, 30790, 30898 Tom-Tec 30789 Top Suxess 31224 Toshiba 31045, 3154, 31503, 31510, 31769	Teletech	30713, 30768
levion 30898, 31036, 31227, 31347, 31382, 31483, 31730, 31923 Theta Digital 30571 Thomson 30522, 30511, 30551 Tivo 31503 Tokai 30784, 30665, 30788, 30790, 30898 Tom-Tec 30789 Top Suxess 31224 Toshiba 31045, 3154, 31503, 31510, 31769	Tensai	
Thomson 30522, 30511, 30551 Tivo 31503 Tokai 30784, 30665, 30788, 30790, 30898 Tom-Tec 30789 Top Suxess 31224 Toshiba 31045, 31154, 31503, 31510, 31769	Tevion	30898, 31036, 31227, 31347,
Tivo 31503 Tokai 30784, 30665, 30788, 30790, 30898 Tom-Tec 30789 Top Suxess 31224 Toshiba 31045, 3154, 31503, 31510, 31769	Theta Digital	30571
Tokai 30784, 30665, 30788, 30790, 30898 Tom-Tec 30789 Top Suxess 31224 Toshiba 31045, 31573, 30539, 30695, 31045, 31154, 31503, 31510, 31769	Thomson	30522, 30511, 30551
JOKA 30898 Tom-Tec 30789 Top Suxess 31224 Joshiba 31045, 31573, 30539, 30695, 31045, 31540, 31769	Tivo	31503
Top Suxess 31224 30503, 30573, 30539, 30695, Toshiba 31045, 31154, 31503, 31510, 31769	Tokai	
30503, 30573, 30539, 30695, Toshiba 31045, 31154, 31503, 31510, 31769	Tom-Tec	30789
Toshiba 31045, 31154, 31503, 31510, 31769	Top Suxess	
TRANS-continents 30831, 30872, 31321. 31327	Toshiba	31045, 31154, 31503, 31510,
Transonic 30730	Transonic	30730

T

	Tredex	30843	Α
	TruVision	31451	
	Tsinghua Tongfang	31205	
	TSM	31224	
U	Umax	30690, 31151	
	Unimax	30770	
	United	30675, 30695, 30699, 30713, 30730, 30788, 30884, 31115, 31152, 31228, 31367, 31832	B C
	Universum	30591, 30713, 30741, 30790, 30869, 31227, 31530, 31913	
	Uptek	30763	
	upXus	31345	
	Urban Concepts	30503, 30539	
	US Logic	30839	
V	Venturer	30790	
	Vestel	30713, 30884, 31530	
	Victor	31597	D
	Vieta	30705	
	Viewmaster	30862, 31224	
	Voxson	30690, 30730, 30774, 30831	
14/	Vtrek	31228	
VV	Waitec Walkvision	31151, 31224, 31233 30717	E
	Waltham	31530	
	Welkin	30831	
	Wellington	30713	_
	Weltstar	30713	F
	Wesder	30699	
	Wharfedale	30686, 30751, 30752, 30790,	~
		31832	G
	Wilson	30831, 31233	
	Windsor	30713	
	Windy Sam	30573	
	WIZE	31115	н
v	Woxter	31005, 31151, 31224	п
X	Xbox	30522, 31708	T
	Xenius	30790	Ĵ
	XLogic XMS	30768, 31152, 31228	K
	Xivis Xoro	30770, 30788	N
v	Yakumo	31183, 31250 31004, 31056	
I		30872, 31004, 31056, 31151,	L
	Yamada	31158	
	Yamaha	30490, 30539, 30646, 30545, 31354	
	Yamakawa	30665, 30872, 31104	
	Yukai	30730, 31730	
Ζ	Zenith	30503, 30591, 30741, 30869, 31906	
	Zeus	30784	M
מ	VD Recorder		
		211E0	
1	4Kus	31158	

A	Airis	31321
	Akira	31321
	Alba	31530
	Apex Digital	31056
	Aristona	30646
	Aspire Digital	31168
B	Belson	31086
C	Cat	31421
	cello	31730
	Centrum	31227
	Classic	31730
	Coby	31086
	Commax	31321
	Conia	31321
	CyberHome	31129, 31502
	Cytron	31347
D	Denon	30490
	Denver	31056
	Digitrex	31056
	DIGITIEX	31730
	Durabrand	31502
E	E:max	
5	Ellion	31321
		31421
	Eltax	31321
I	Emerson	30675
F	Ferguson	31730
	Firstline	31530
~	Funai	30675
G	Gateway	31158
	Go Video	30741, 31158, 31730
	Goodmans	31530, 31730
	GPX	30741
	Grundig	31730
н	H & B	31421
	Humax	30646
1	iLo	31348
J	JVC	31164, 31597
K	Kansas Technologies	31530
	Kreisen	31421
	KXD	31321
L	LG	30741
	Lifetec	31347
	LiteOn	31158
	Loewe	30741
	Lumatron	31321
	Luxor	31730
M	Magnavox	30646, 30675
	Matsui	31730
	Maxent	31347
	MBO	31730
	Medion	31347
	MiCO	30751

	Mitsubishi	31403
	Mustek	31730
N	NEC	31404
0	Oopla	31158
P	Palsonic	31056, 31321
	Panasonic	30490, 31579
	Philips	30646, 31158
	Pioneer	30631
	Polaroid	31086
	ProVision	31321
	Pye	30646
R	RCA	30522
	Relisys	31347
	Roadstar	31227
S	Sampo	31347
•	Samsung	30490, 31635
	ScanMagic	31730
	Schneider	30646
	SEG	31530
	Sensory Science	31158
	Sharp	30630, 30675
	Sony	31033, 31070, 31431, 31433, 31536
	Star Clusters	31227
	Sylvania	30675
T	Tangent	31321
	Targa	31227
	Теас	31227
	Techwood	31530
	Tevion	31227, 31347, 31730
	Thomson	30551
	Toshiba	31510
U	Universum	31227, 31530
V	Vestel	31530
	Victor	31597
W	Waltham	31530
Y	Yakumo	31056
	Yamada	31056, 31158
	Yamaha	30646
	Yukai	31730
Ζ	Zenith	30741

DVD preset codes / Codes préréglés DVD						
DENON	32134 (default / défaut)		30490			
DENON Model No. / Modéle numéro	DVD-555 DVD-755 DVD-910 DVD-955 DVD-1200 DVD-1500 DVD-1710 DVD-1910 DVD-1910 DVD-19200 DVD-1200 DVD-1500 DVD-1500 DVD-1910 DVD-19200 DVD-1930CI DVD-2200 DVD-2800	DVD-2910 DVD-2930Cl DVD-3800 DVD-3910 DVD-3930Cl DVD-5900 DVD-5910 DVD-5910 DVD-9000 DVM-715 DVM-1800 DVM-1805 DVM-1805 DVM-1815 DVM-2815	30490 DVD-800 DVD-1600 DVD-2000 DVD-2500 DVD-2500 DVD-3300 DVD-3300			
	DVD-2800II DVD-2900	DVM-4800				

[]*: Preset codes set upon shipment from the factory.

: Les codes préréglés différent en fonctiom des livraison de l'usine.

- *1 : These preset codes can be recorded in the SAT/CBL mode.
 : Ces codes de présélection peuvent être enregistrés en mode SAT/CBL.
- **2 : These preset codes can be recorded in the TV mode.: Ces codes de présélection peuvent être enregistrés en mode TV.
- 3 : These preset codes can be recorded in the VCR mode.: Ces codes de présélection peuvent être enregistrés en mode VCR.
- **4 : These preset codes can be recorded in the DVD mode.: Ces codes de présélection peuvent être enregistrés en mode DVD.



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